

*Cho Chikun's  
Encyclopedia of  
Life & Death*

Part 3 — Advanced

## Motto

*"It is a matter of life and death,  
a road either to safety or to ruin.*

*Hence it is a subject of inquiry  
which can on no account be neglected."*

— Sun Tzu: *The Art of War*

## Preface

This is a collection of almost three thousand problems from Encyclopedia of Life and Death by Cho Chikun. The problems come without solutions for two reasons: first, one can learn more by reading out all the paths and solving the problems oneself; second, the solutions are copyrighted. All the problems are **black to move**.

In the third part, you can find about eight hundred problems aimed at advanced players. A dan player should find the solution

in a few minutes and will need about 100 hours to solve the whole book.

I wish you enjoyment and improvement in the wonderful game of go, weiqi, baduk, or whatever you like to call it.

*Vit 'tasuki' Brunner*

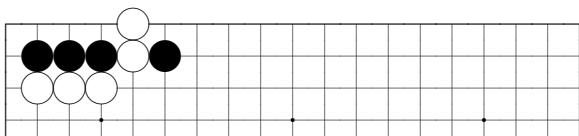
*November 2004*

### **Anniversary edition**

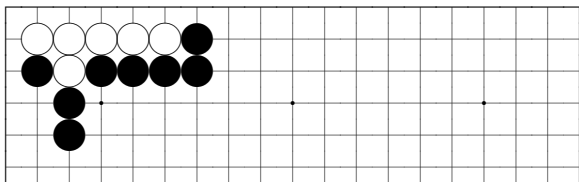
It's been 13 and a half years. This booklet has been downloaded over twenty thousand times. I never imagined the reach it would have. The anniversary edition comes with a better layout and wording. And — glad you asked — some of the problems are still unsolvable!

*Vit 'tasuki' Brunner*

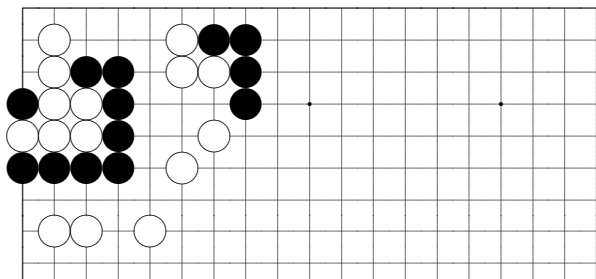
*June 2018*



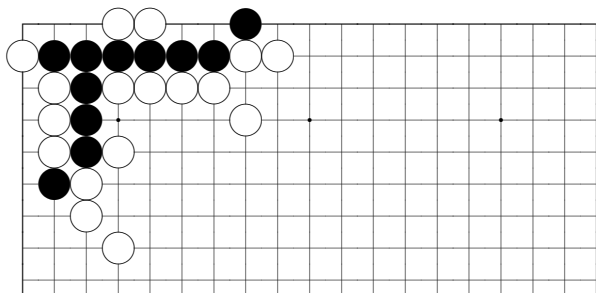
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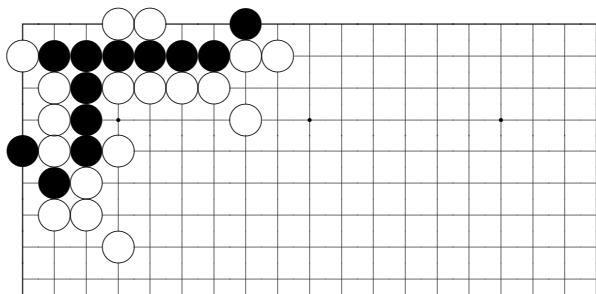
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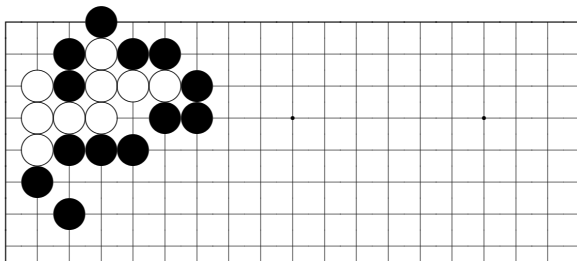
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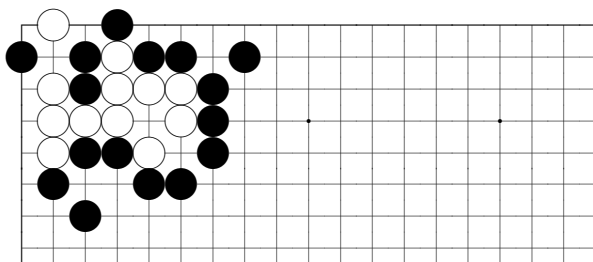
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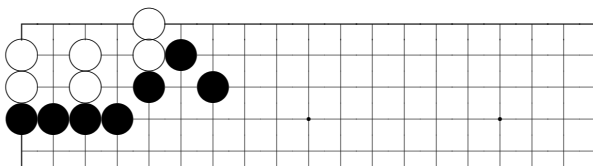
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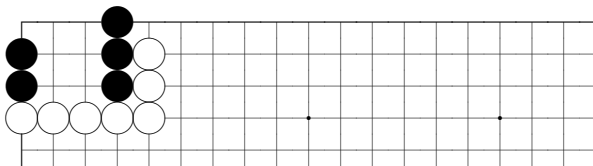
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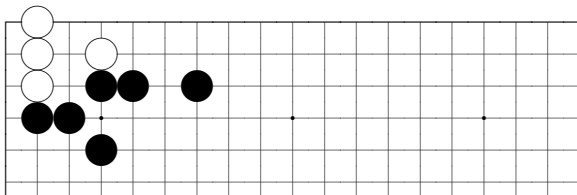
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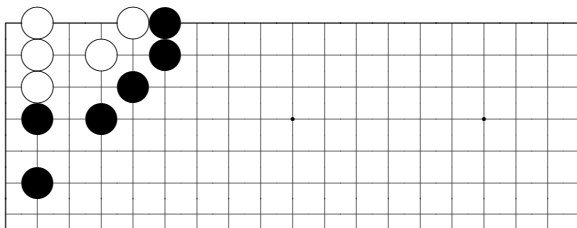
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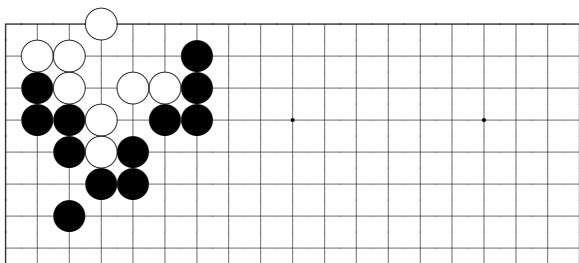
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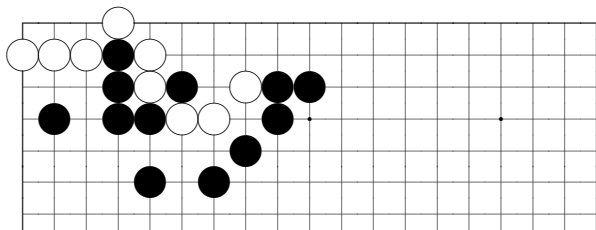
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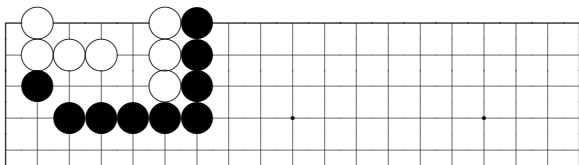
*problem 11*



*problem 12*

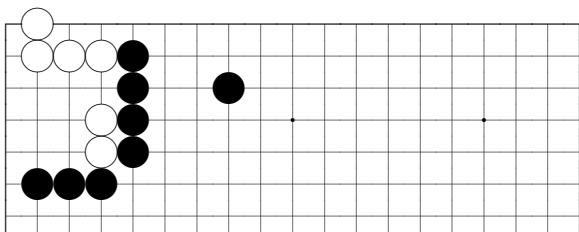


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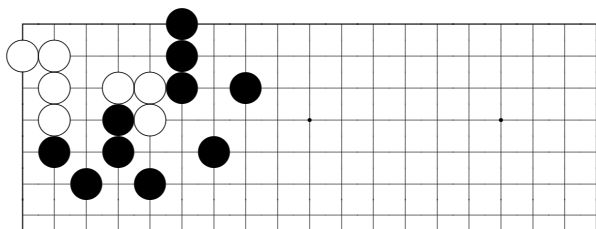


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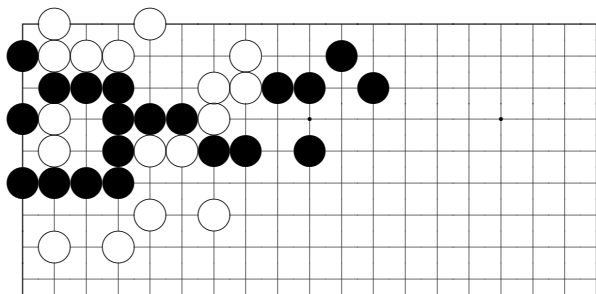




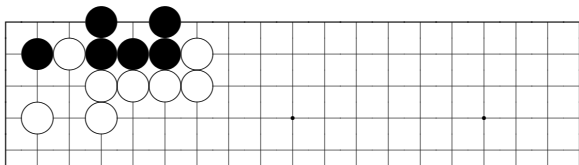
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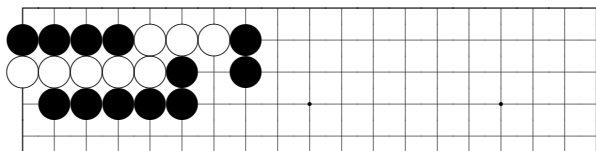
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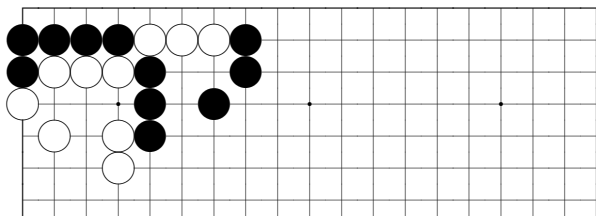
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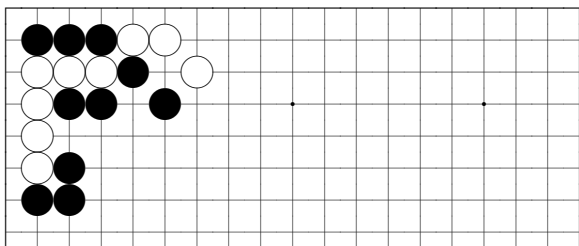
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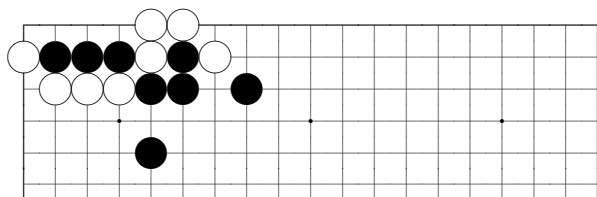
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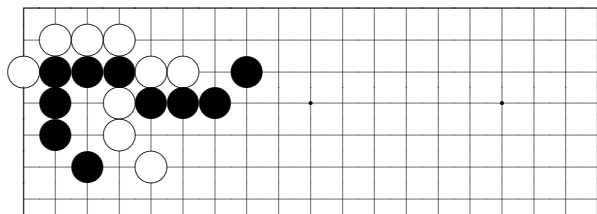
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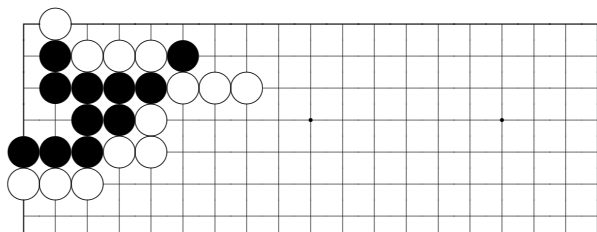
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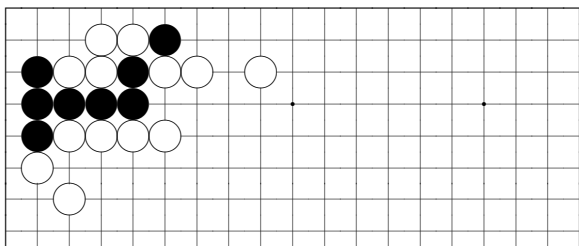
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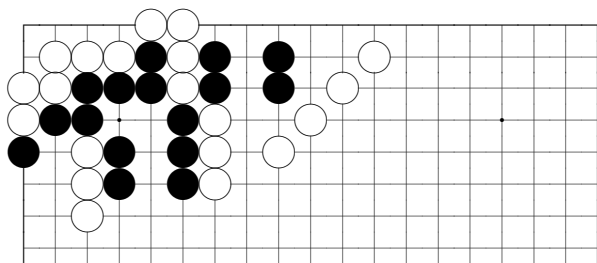
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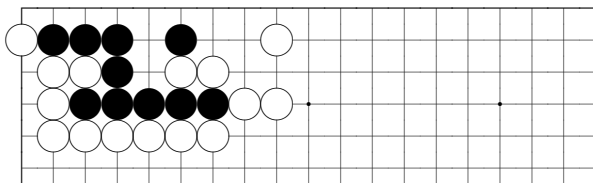
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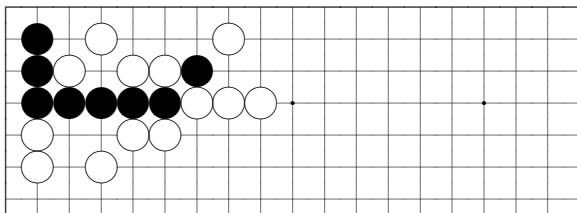
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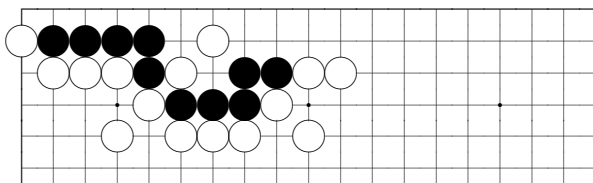
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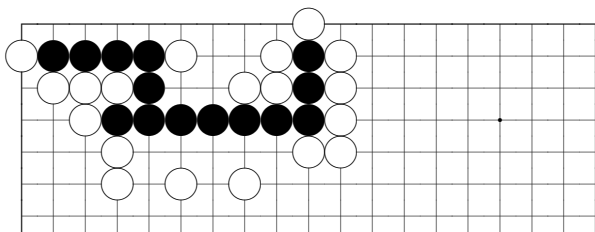
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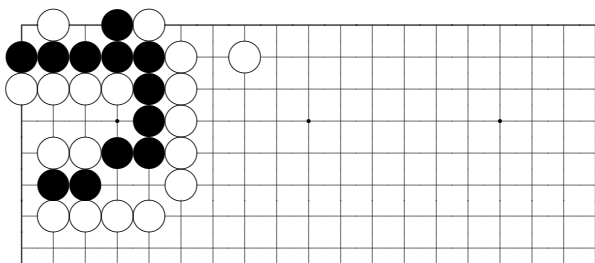
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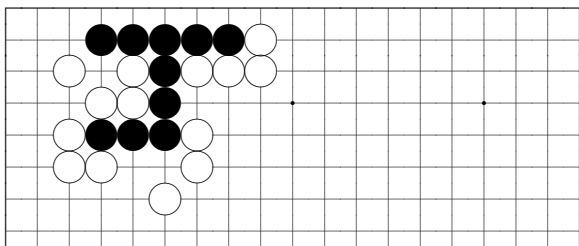
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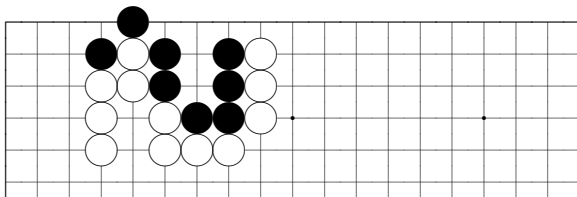
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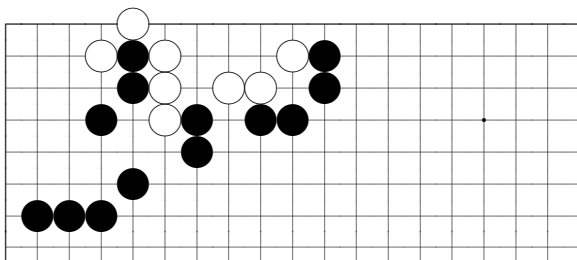
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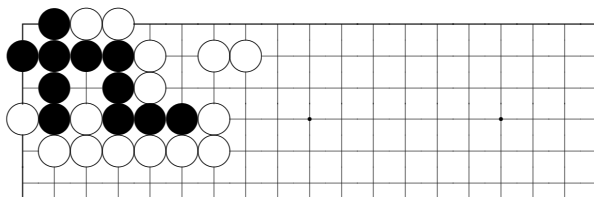
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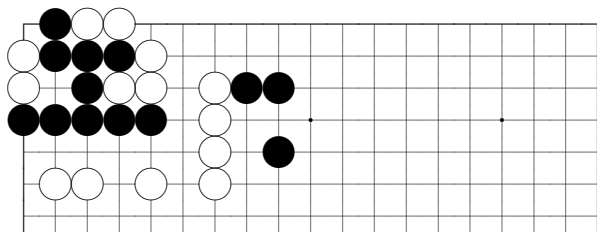
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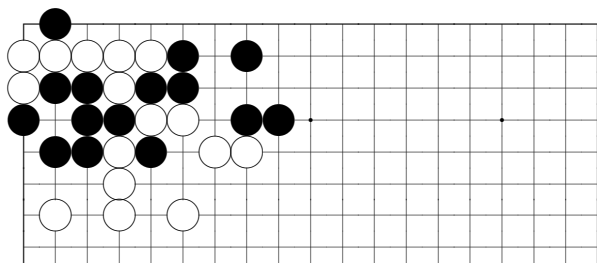
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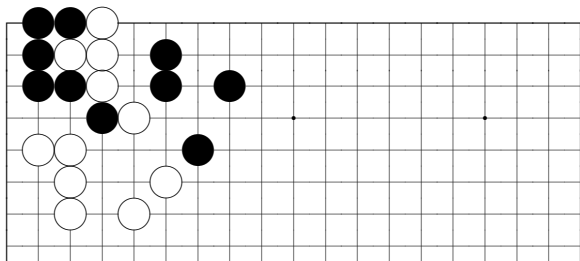
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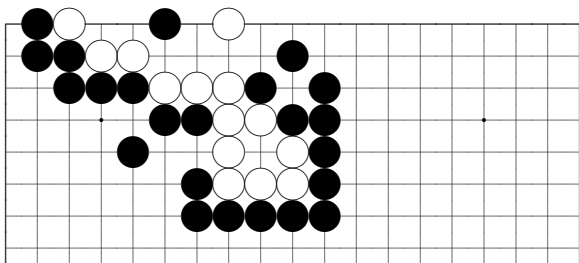


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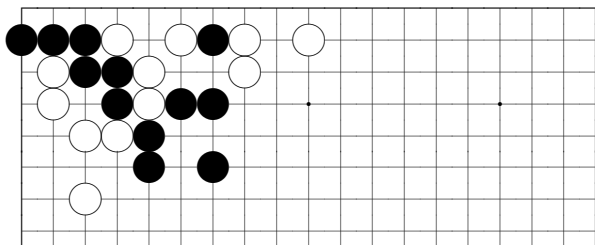


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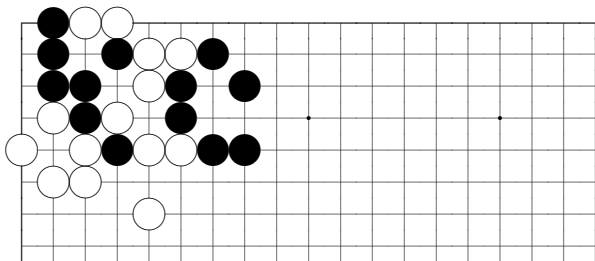




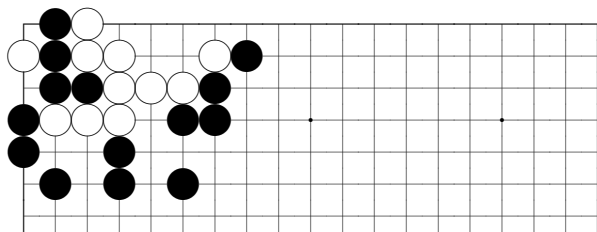
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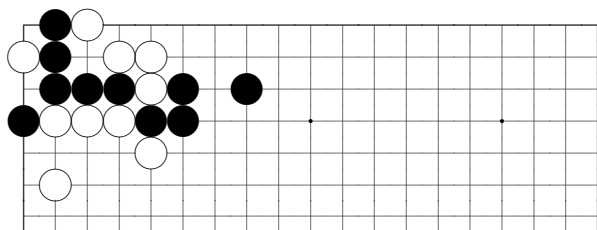
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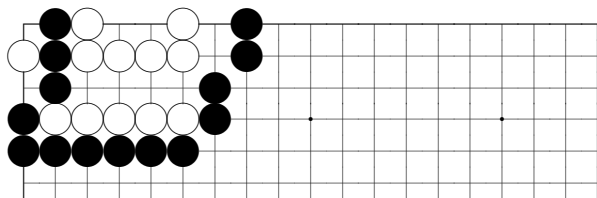
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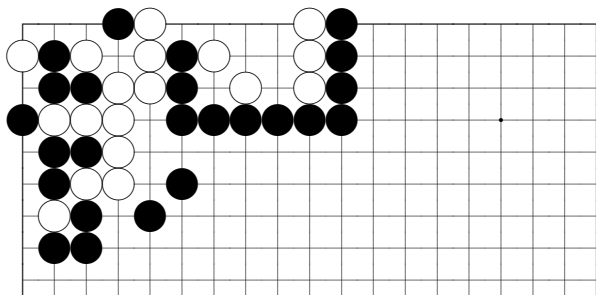
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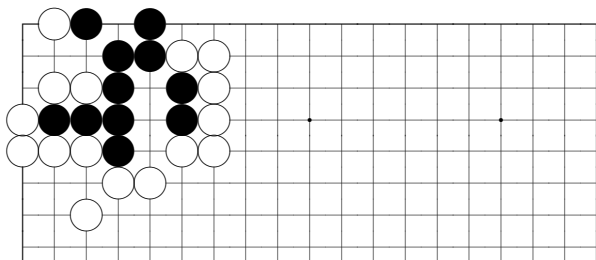
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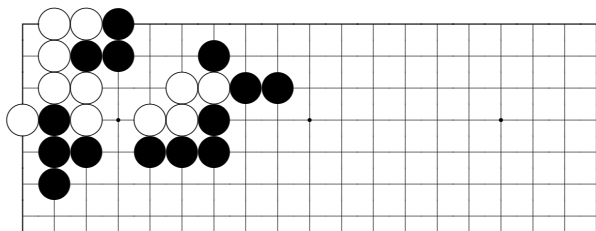
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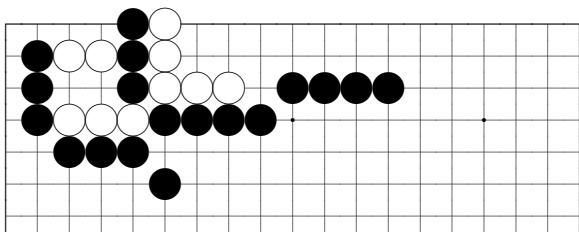
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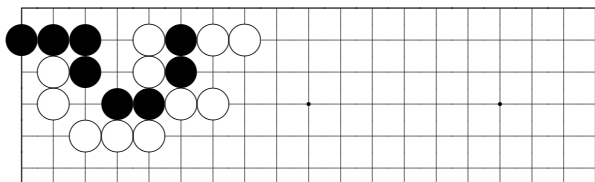
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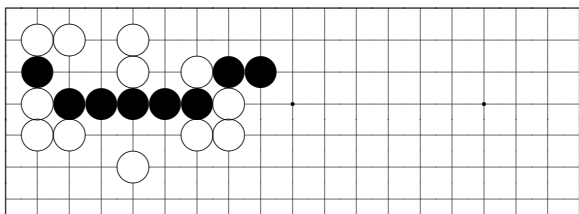
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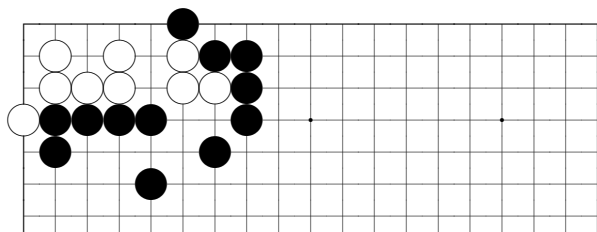
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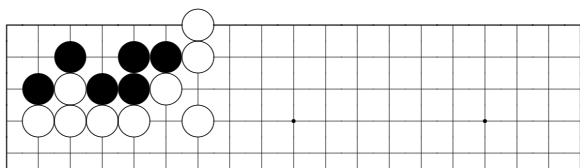
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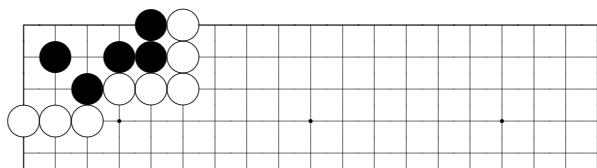
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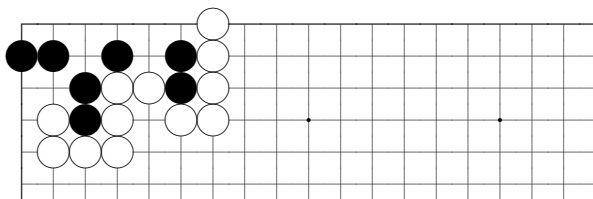
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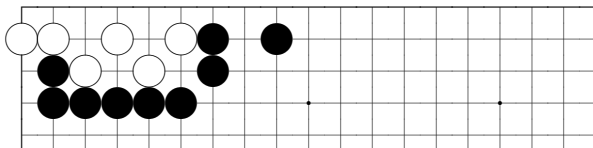
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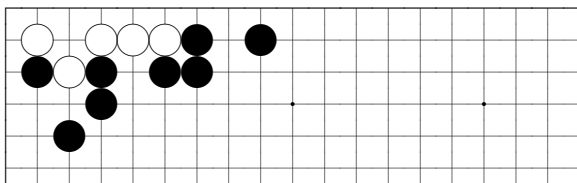
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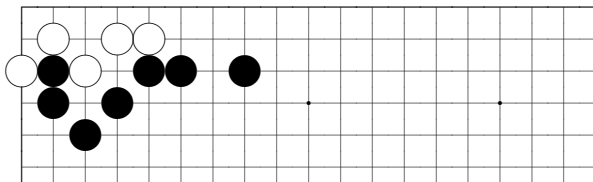
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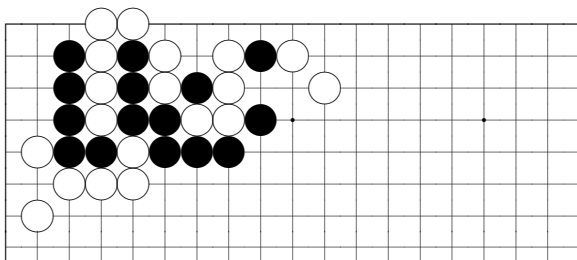
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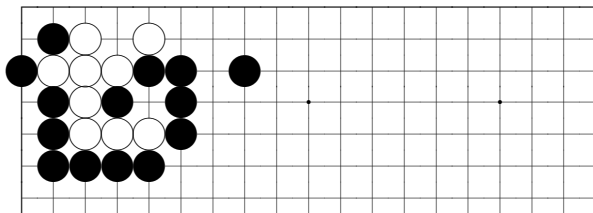
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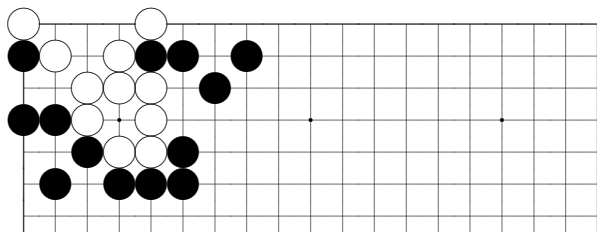
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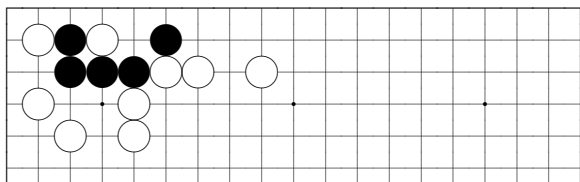
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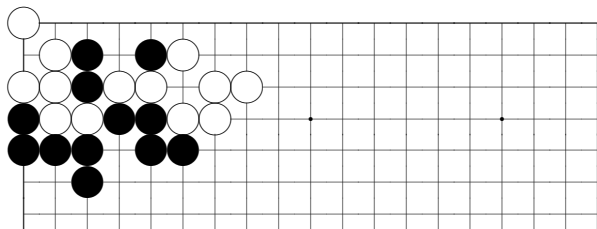
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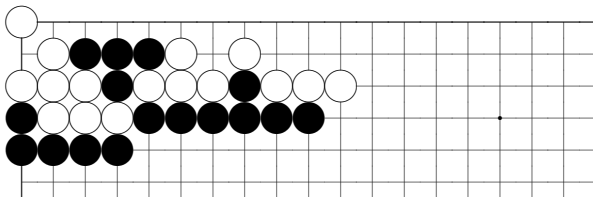


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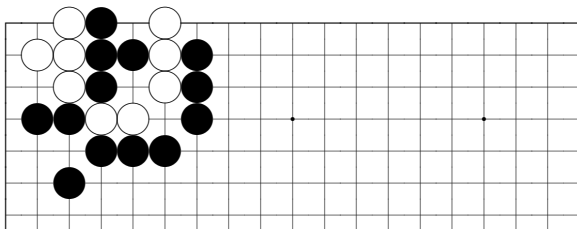


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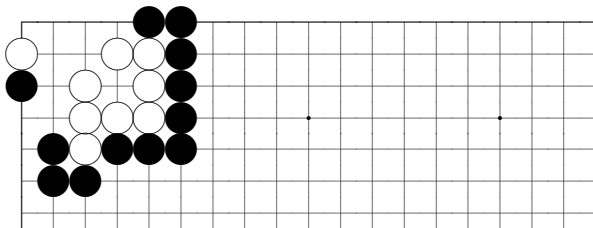




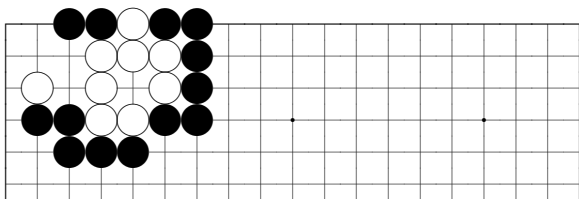
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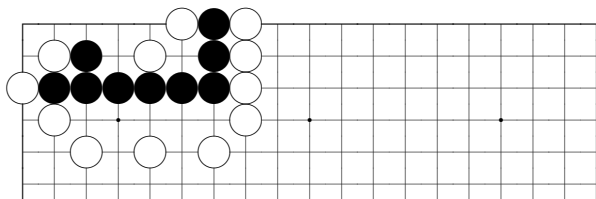
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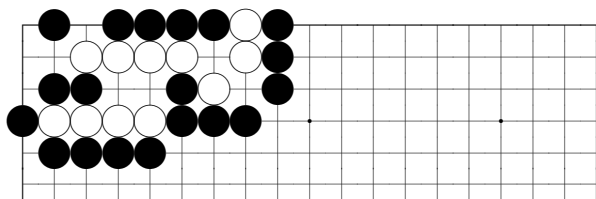
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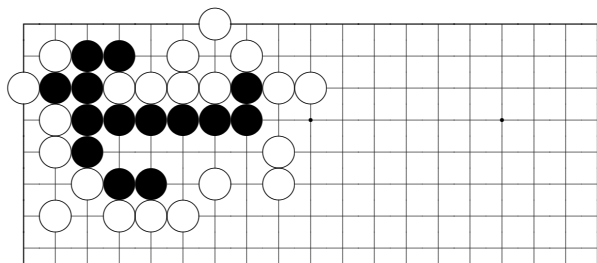
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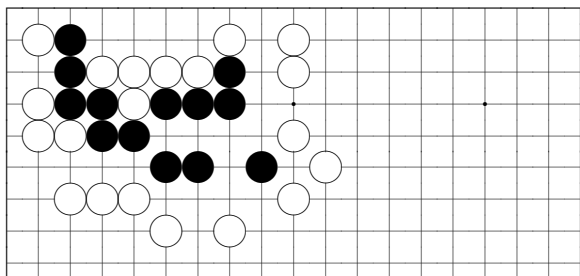
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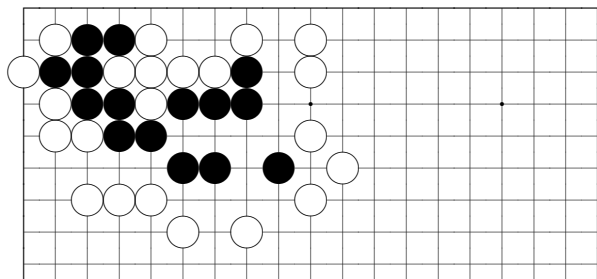
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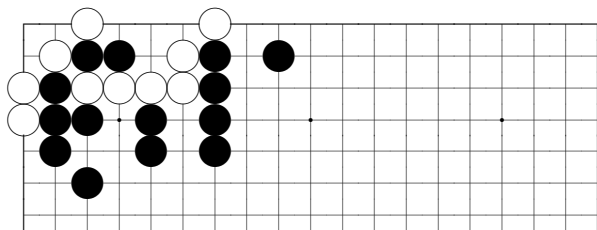
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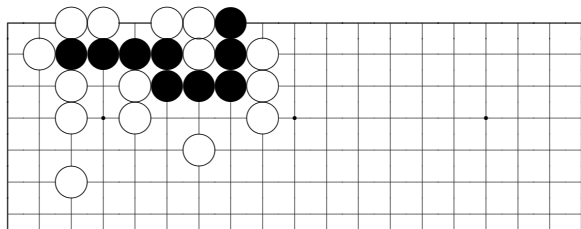
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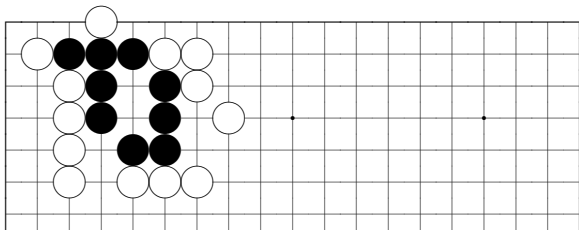
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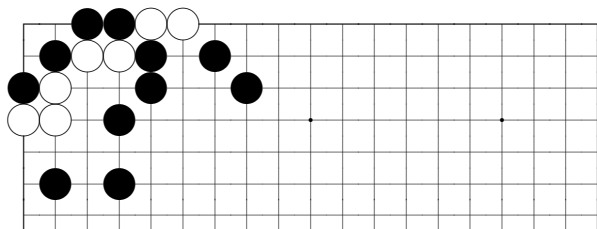
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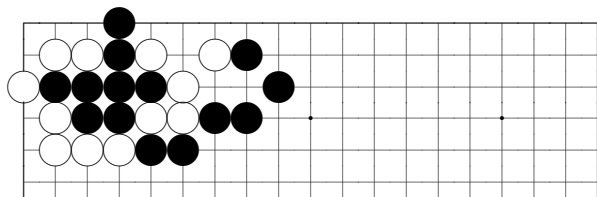
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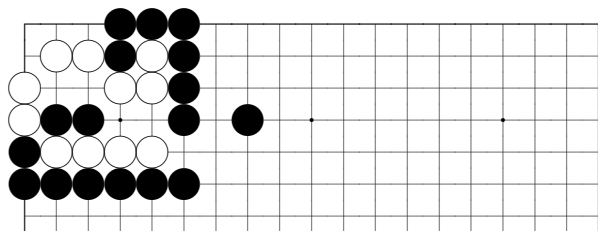
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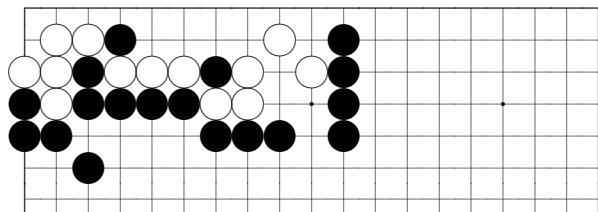
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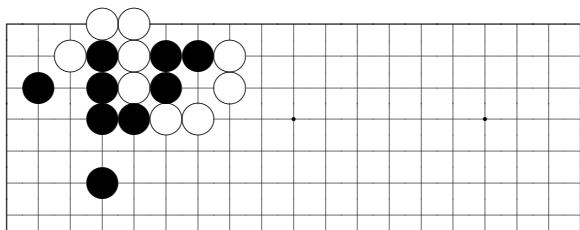
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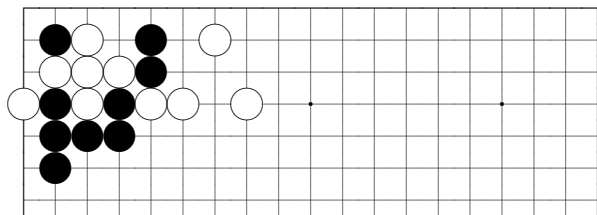
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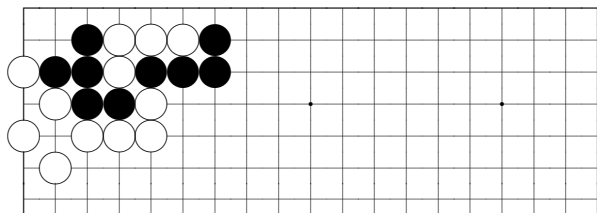
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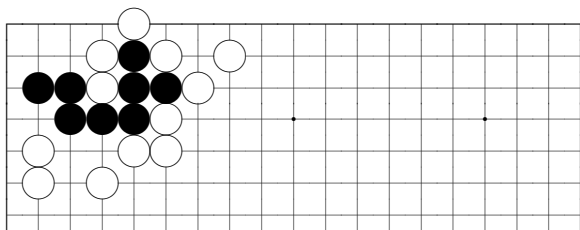
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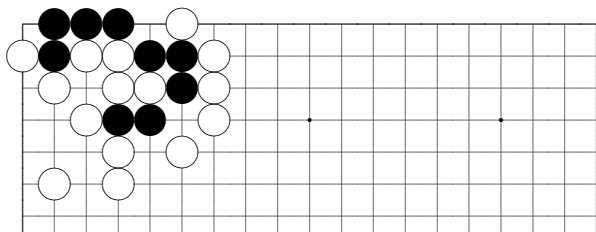
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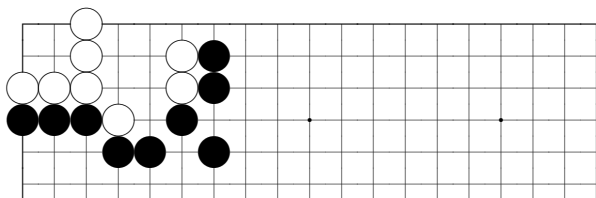
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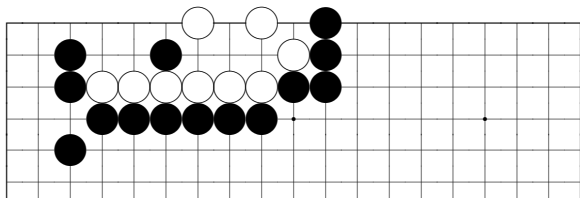
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*problem 83*

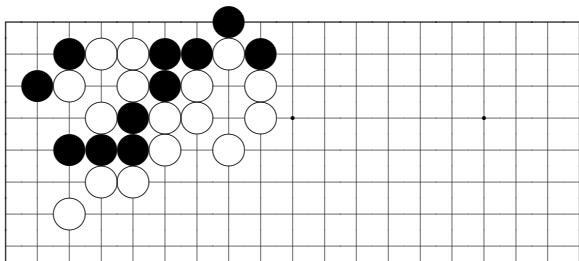


*problem 84*

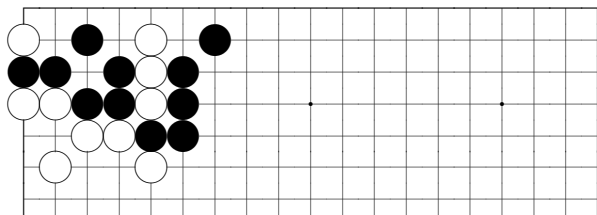


*problem 85*

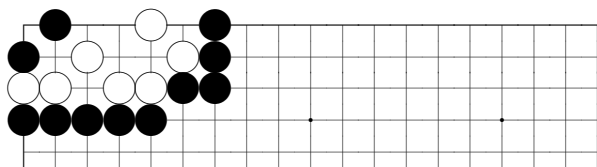




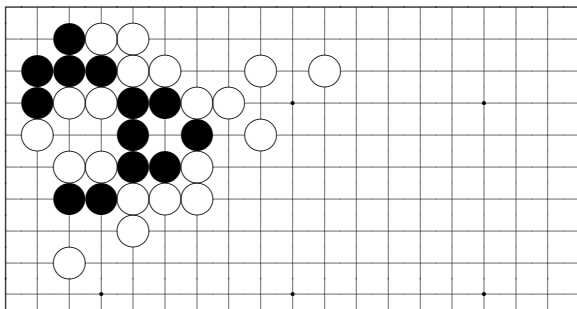
*problem 86*



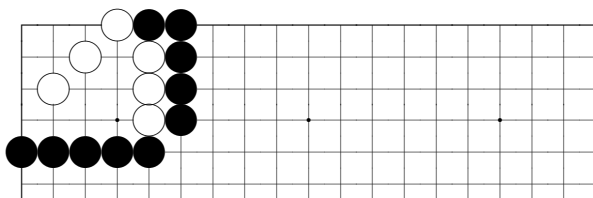
*problem 87*



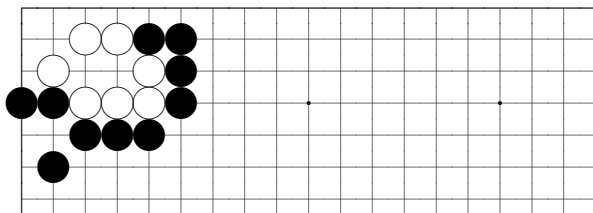
*problem 88*



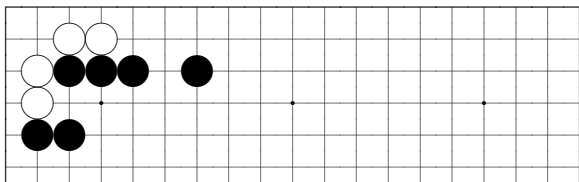
*problem 89*



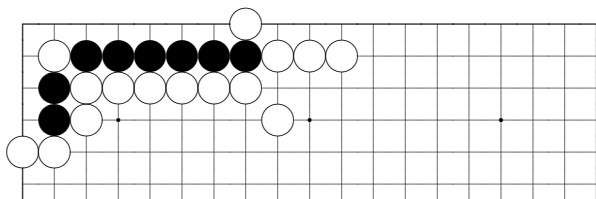
*problem 90*



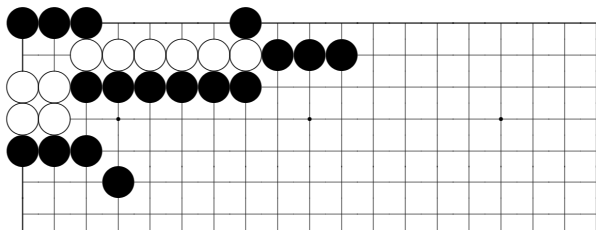
*problem 91*



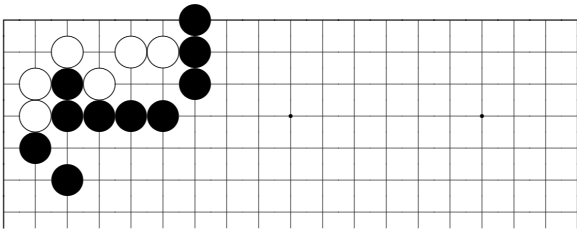
*problem 92*



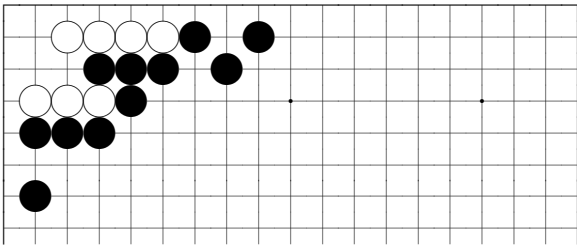
*problem 93*



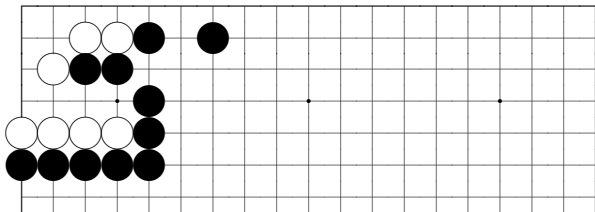
*problem 94*



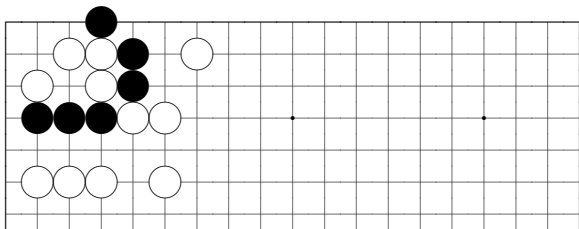
*problem 95*



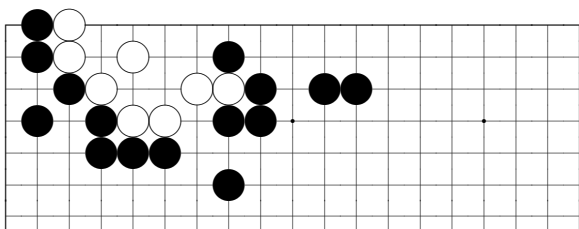
*problem 96*



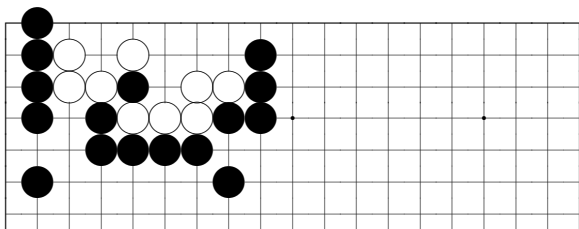
*problem 97*



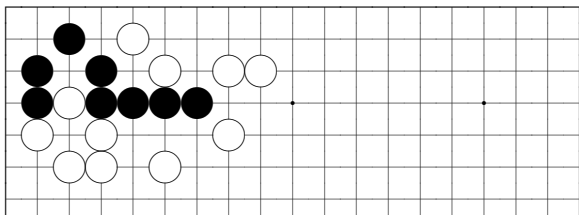
*problem 98*



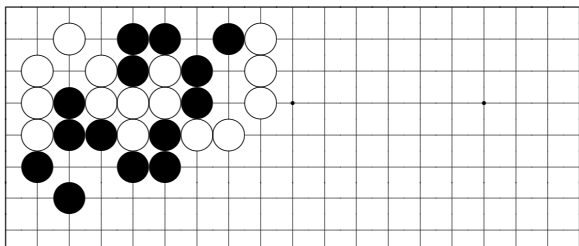
*problem 99*



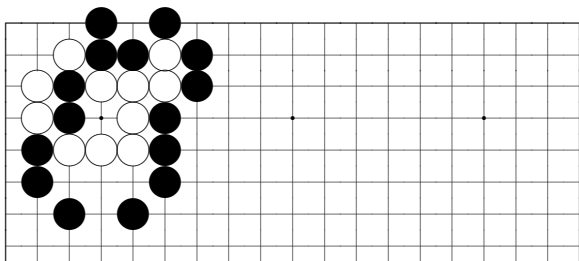
*problem 100*



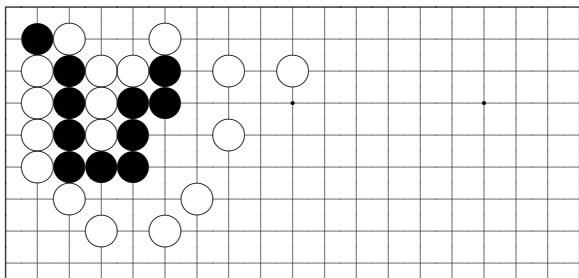
*problem 101*



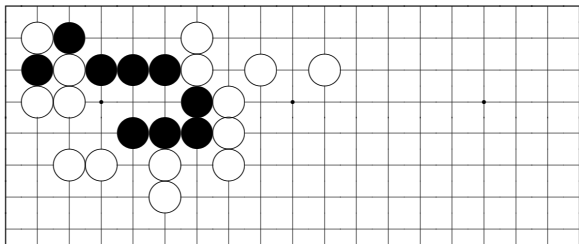
*problem 102*



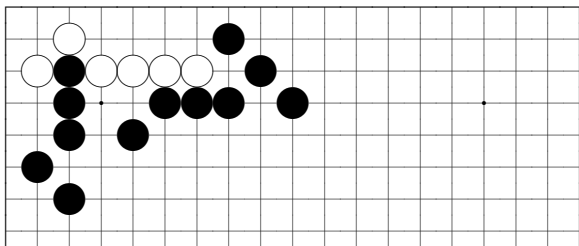
*problem 103*



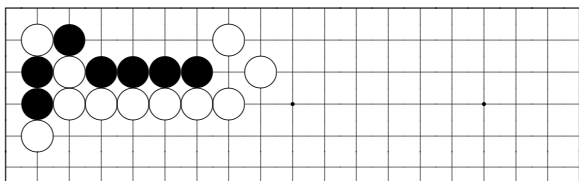
*problem 104*



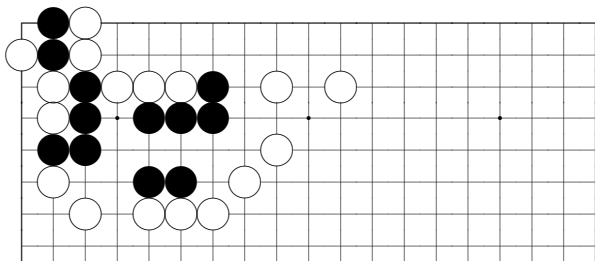
*problem 105*



*problem 106*

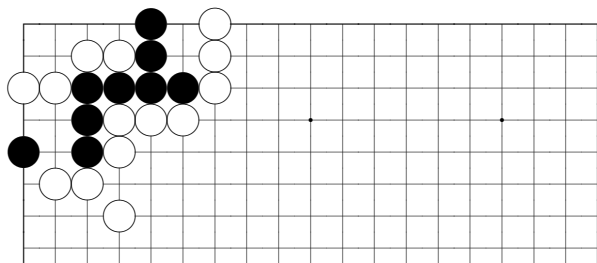


*problem 107*

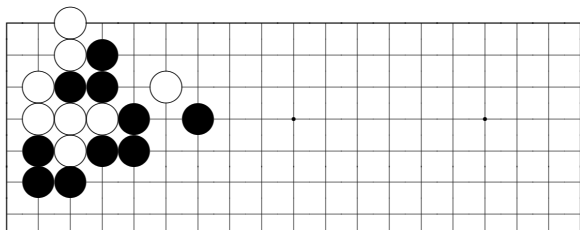


*problem 108*

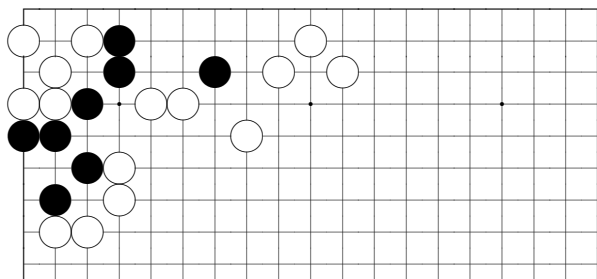




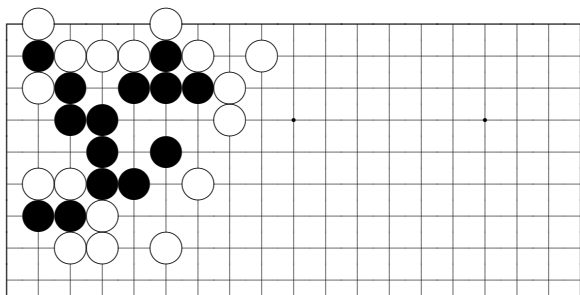
*problem 109*



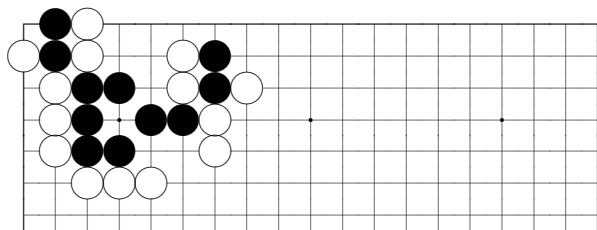
*problem 110*



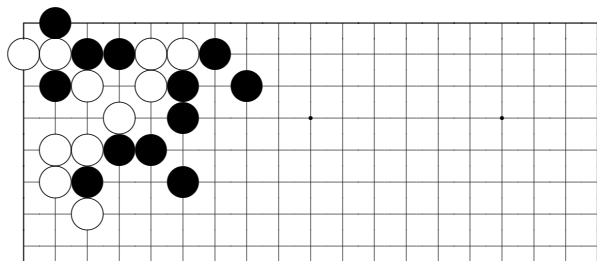
*problem 111*



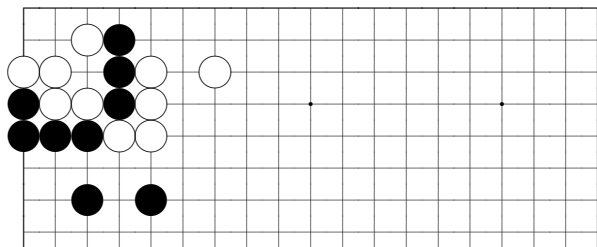
*problem 112*



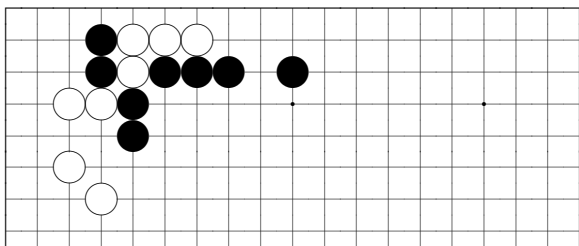
*problem 113*



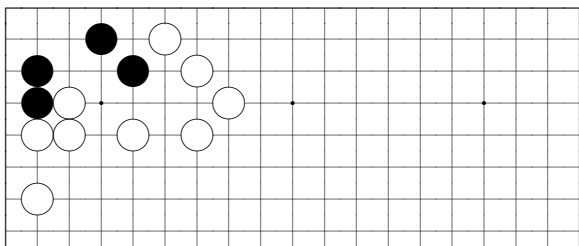
*problem 114*



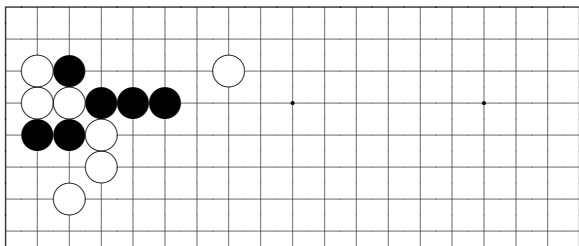
*problem 115*



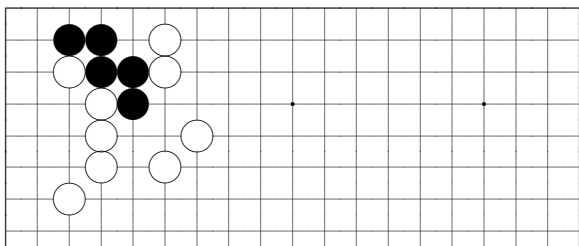
*problem 116*



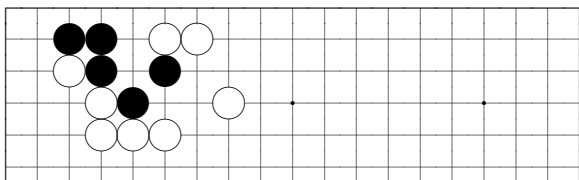
*problem 117*



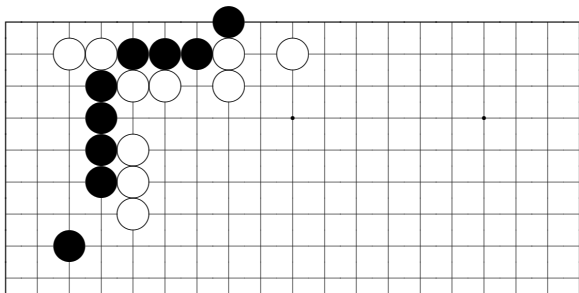
*problem 118*



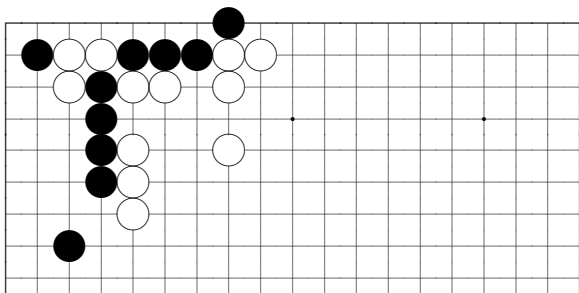
*problem 119*



*problem 120*

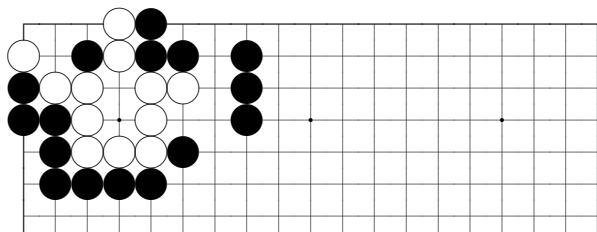


*problem 121*

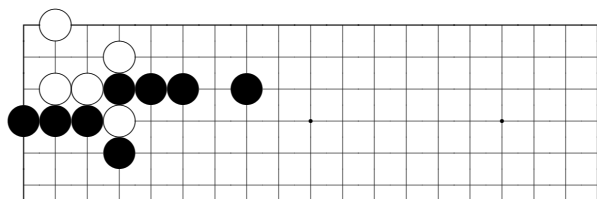


*problem 122*

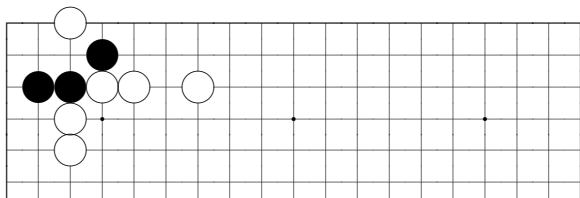




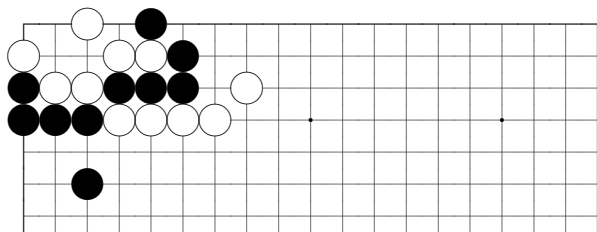
*problem 126*



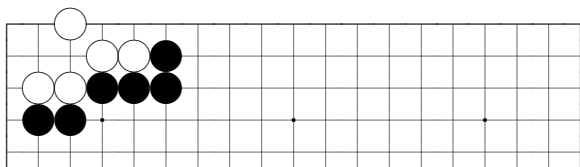
*problem 127*



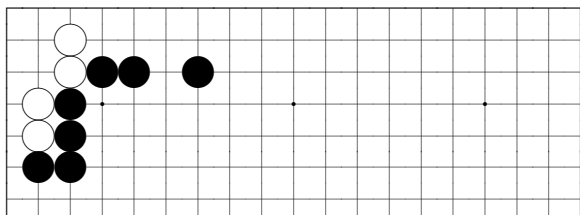
*problem 128*



*problem 129*

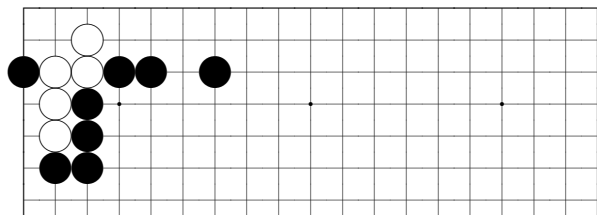


*problem 130*

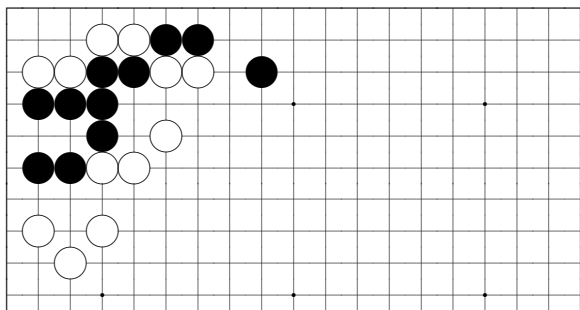


*problem 131*

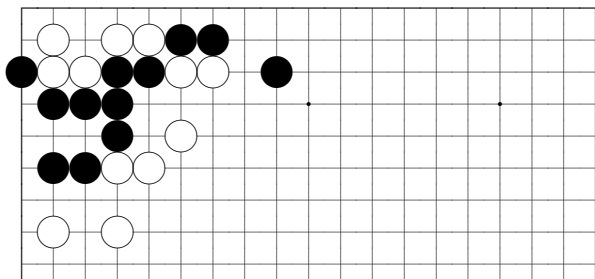




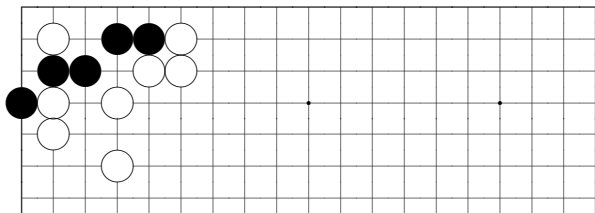
*problem 132*



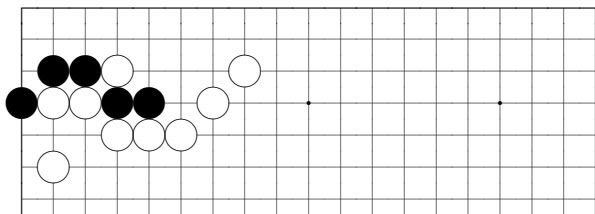
*problem 133*



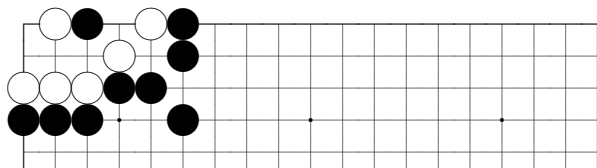
*problem 134*



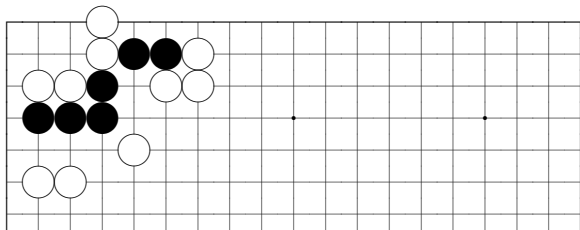
*problem 135*



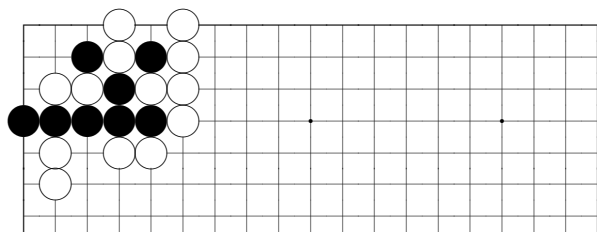
*problem 136*



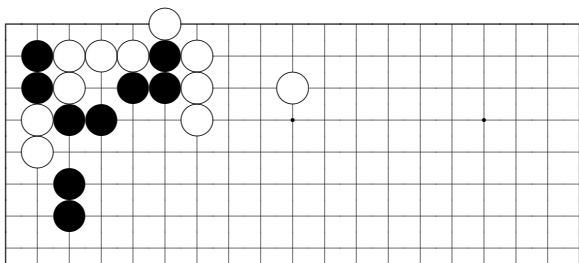
*problem 137*



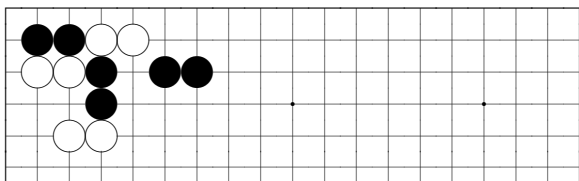
*problem 138*



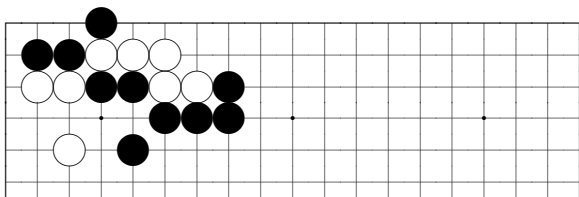
*problem 139*



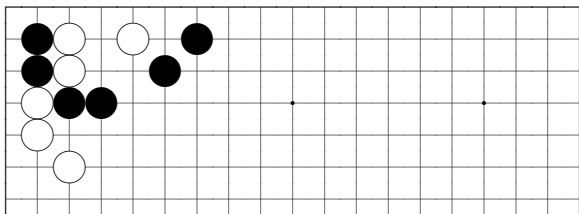
*problem 140*



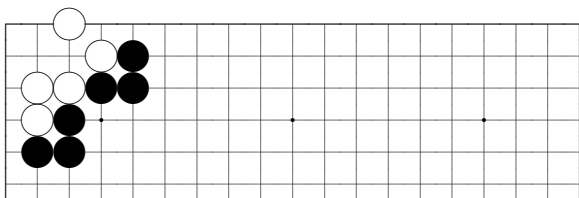
*problem 141*



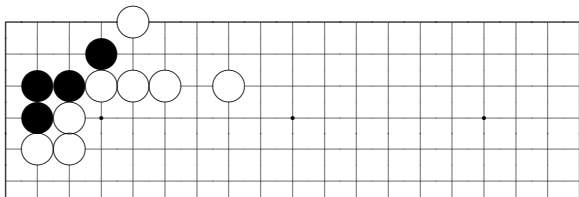
*problem 142*



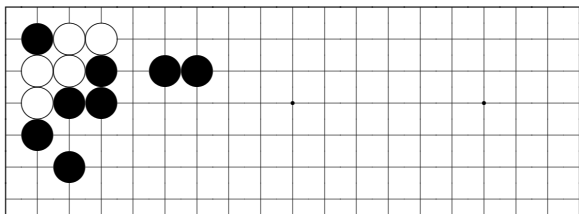
*problem 143*



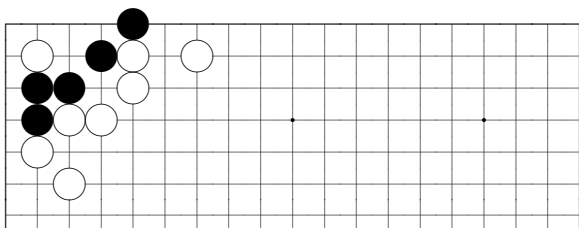
*problem 144*



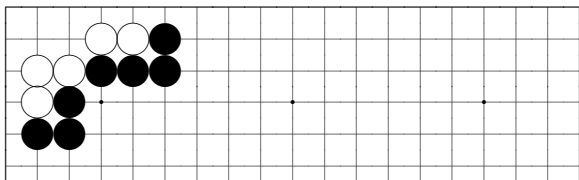
*problem 145*



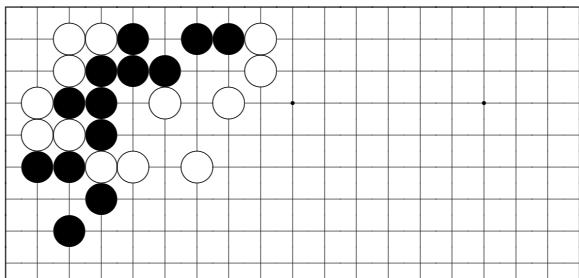
*problem 146*



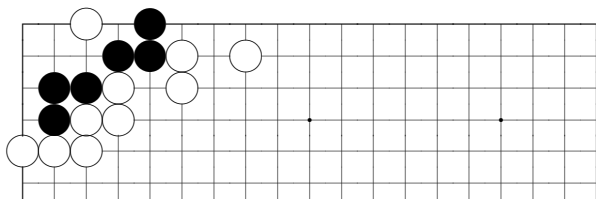
*problem 147*



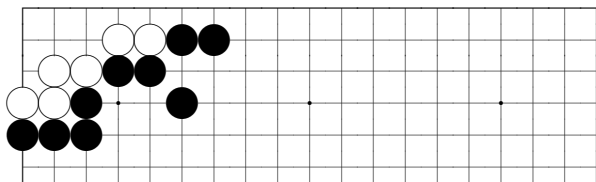
*problem 148*



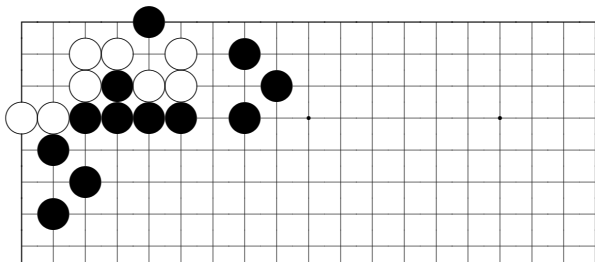
*problem 149*



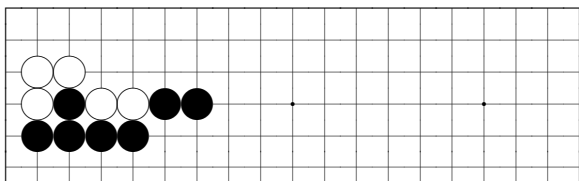
*problem 150*



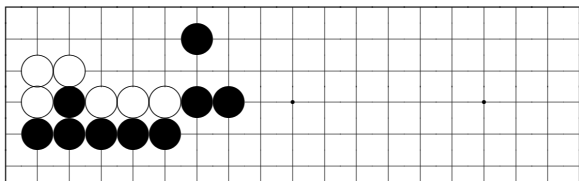
*problem 151*



*problem 152*

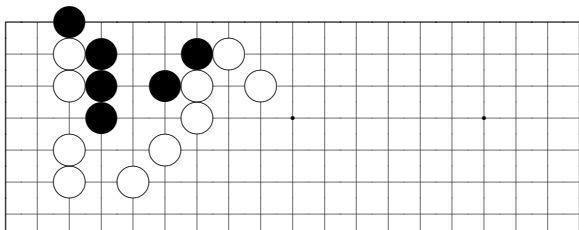


*problem 153*

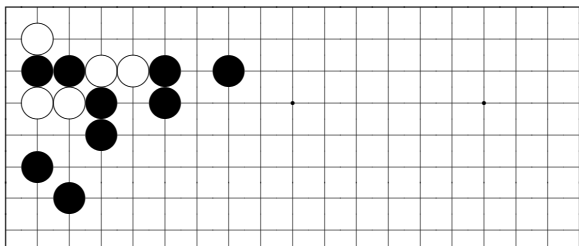


*problem 154*

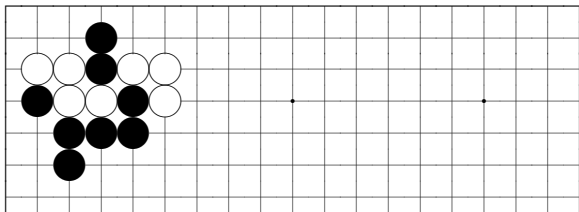




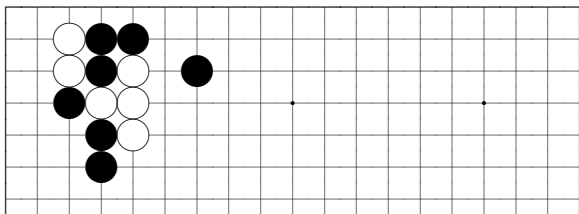
*problem 155*



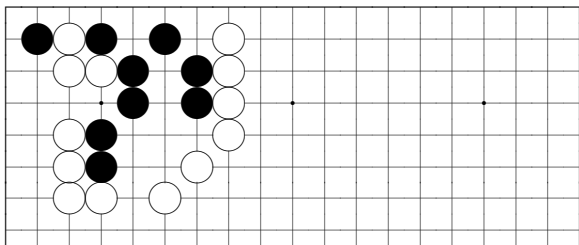
*problem 156*



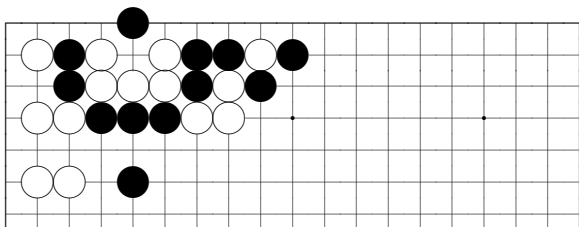
*problem 157*



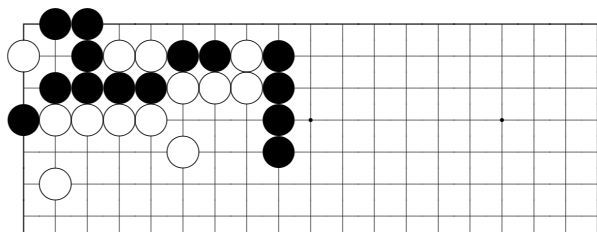
*problem 158*



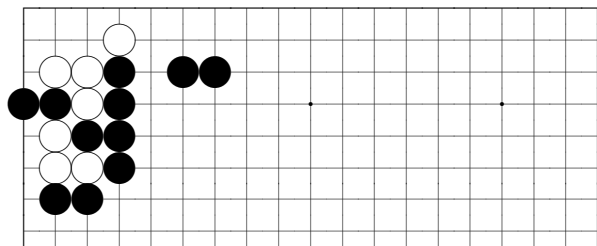
*problem 159*



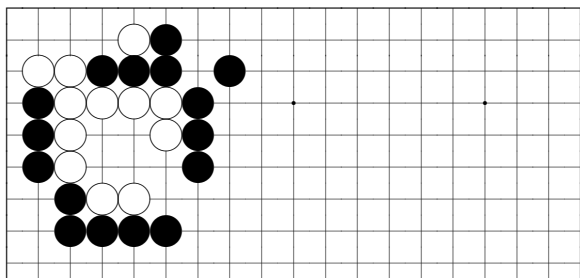
*problem 160*



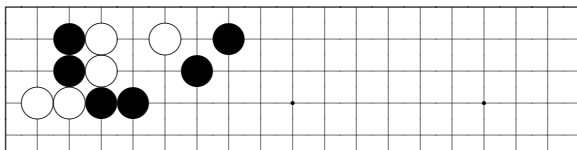
*problem 161*



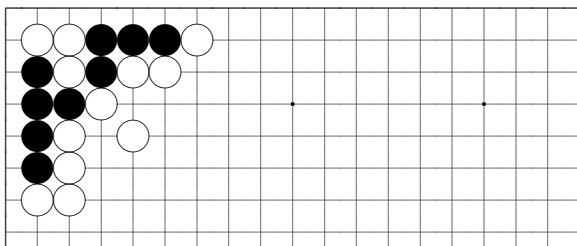
*problem 162*



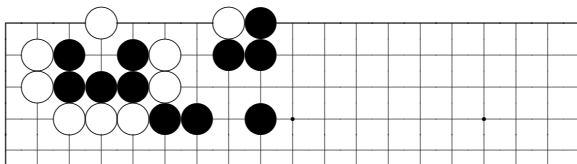
*problem 163*



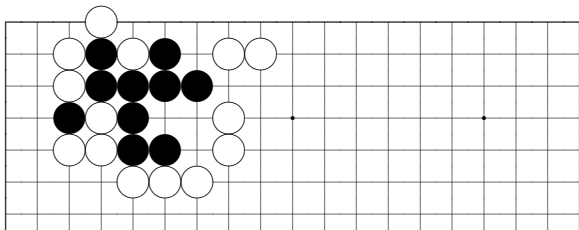
*problem 164*



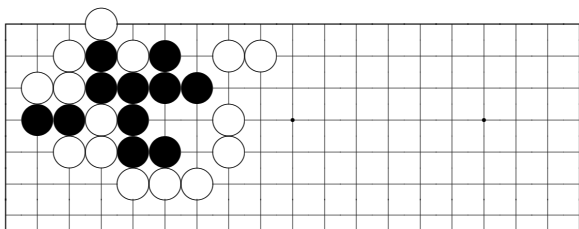
*problem 165*



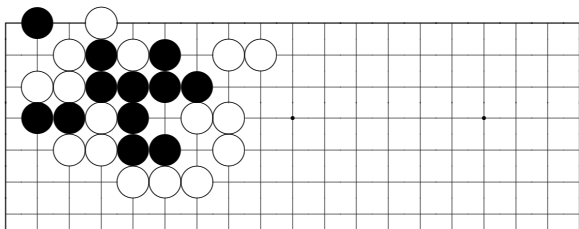
*problem 166*



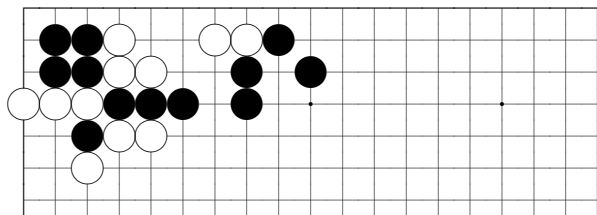
*problem 167*



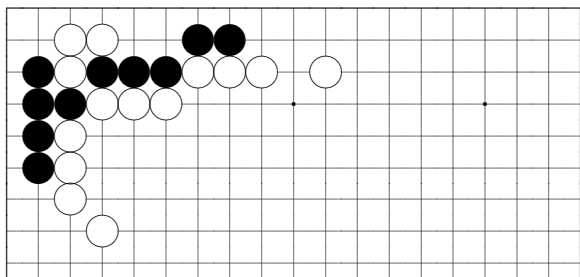
*problem 168*



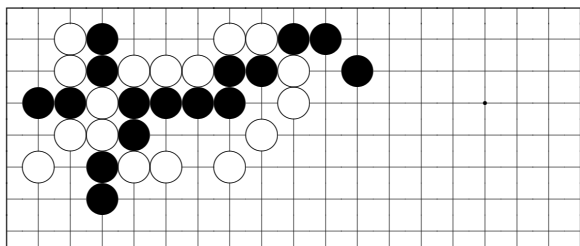
*problem 169*



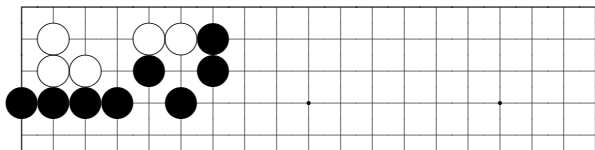
*problem 170*



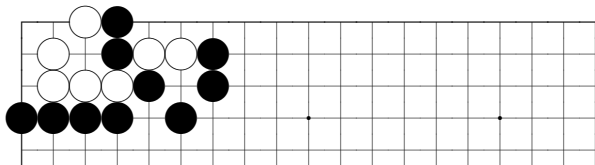
*problem 171*



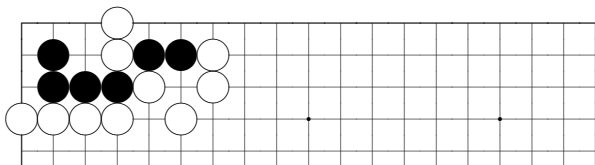
*problem 172*



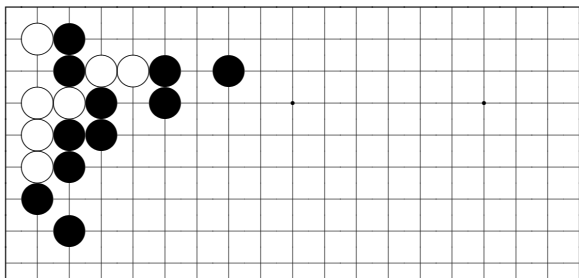
*problem 173*



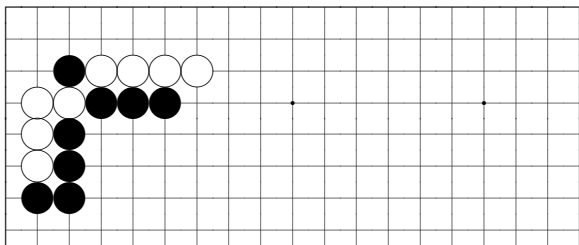
*problem 174*



*problem 175*

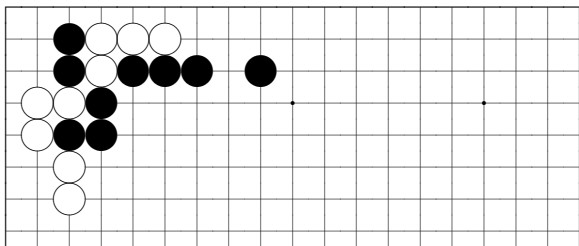


*problem 176*

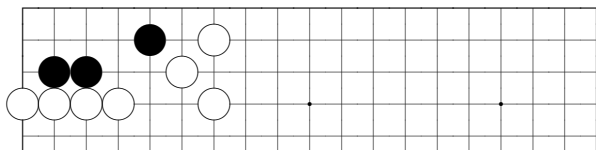


*problem 177*

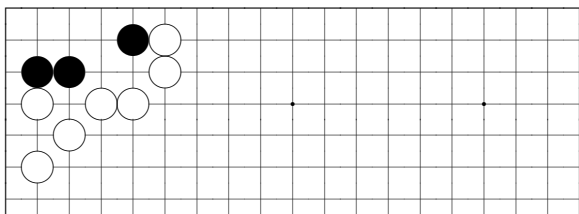




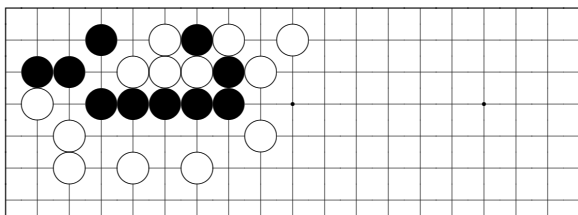
*problem 178*



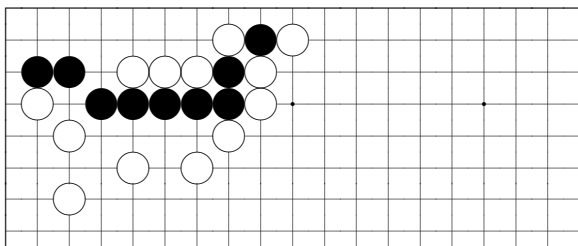
*problem 179*



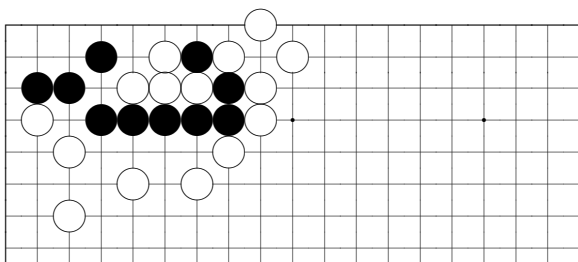
*problem 180*



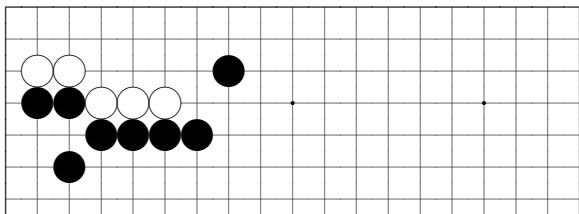
*problem 181*



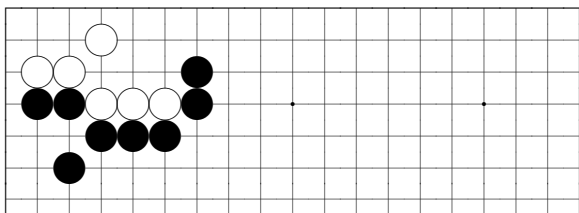
*problem 182*



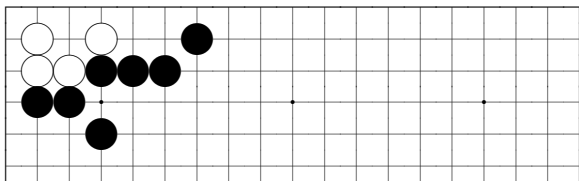
*problem 183*



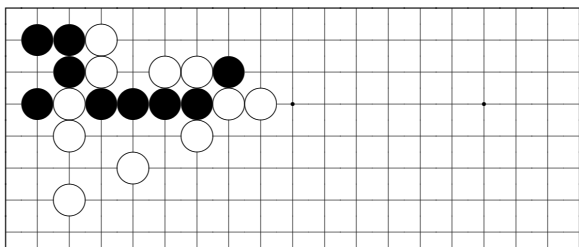
*problem 184*



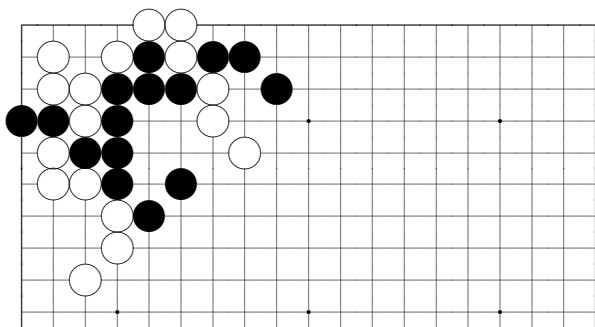
*problem 185*



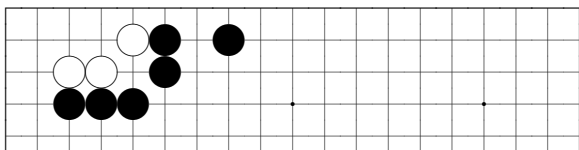
*problem 186*



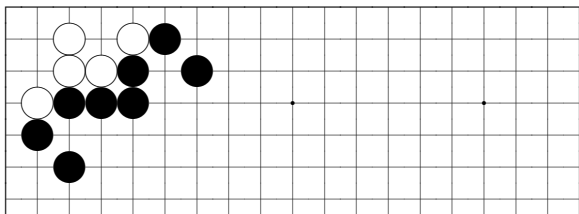
*problem 187*



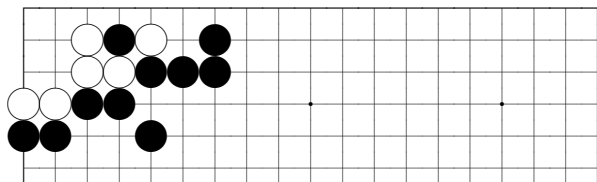
*problem 188*



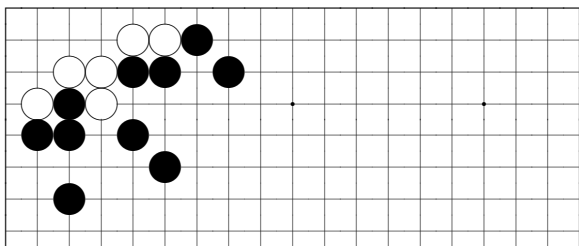
*problem 189*



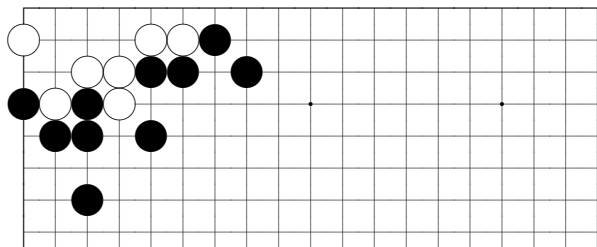
*problem 190*



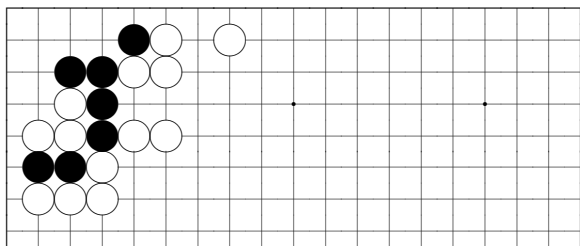
*problem 191*



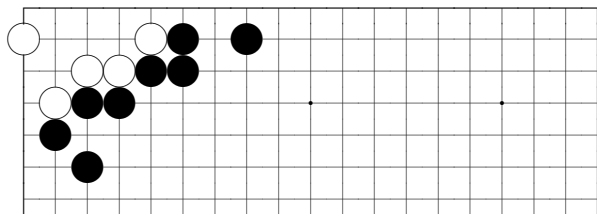
*problem 192*



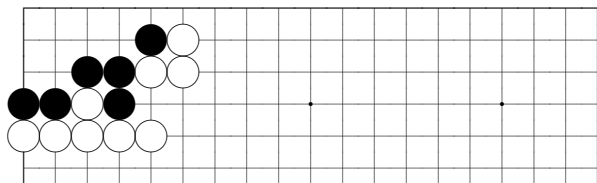
*problem 193*



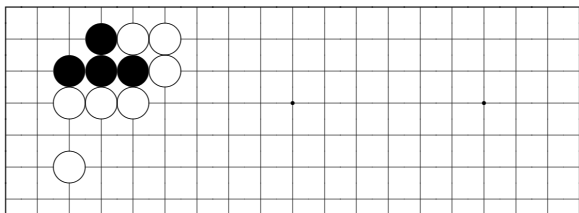
*problem 194*



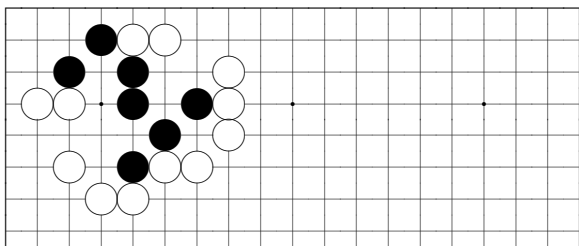
*problem 195*



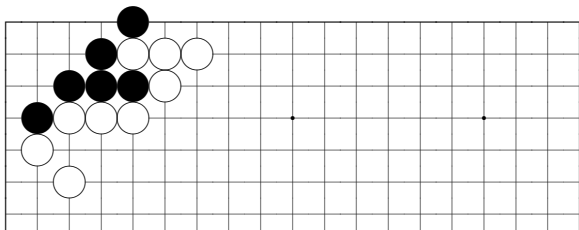
*problem 196*



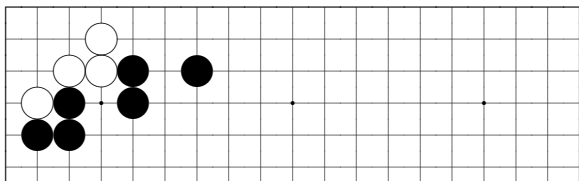
*problem 197*



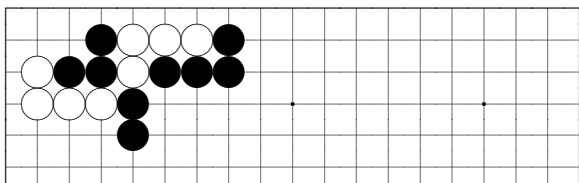
*problem 198*



*problem 199*

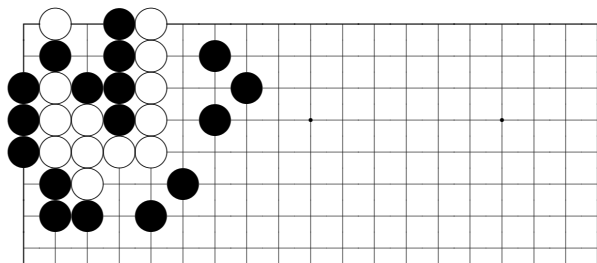


*problem 200*

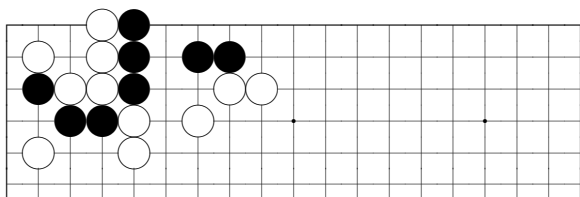


*problem 201*

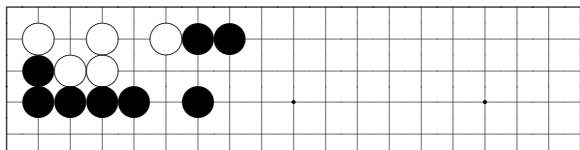




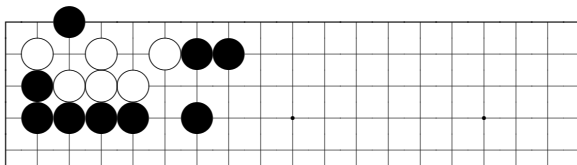
*problem 202*



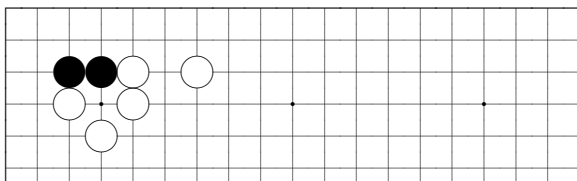
*problem 203*



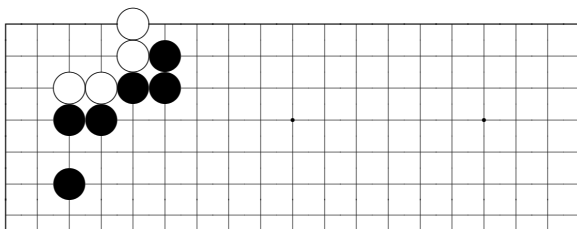
*problem 204*



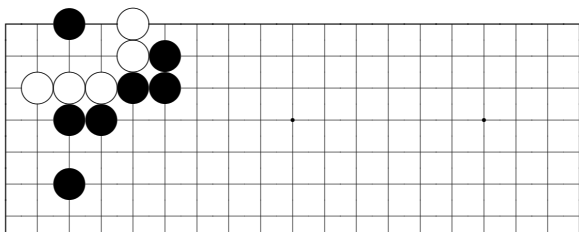
*problem 205*



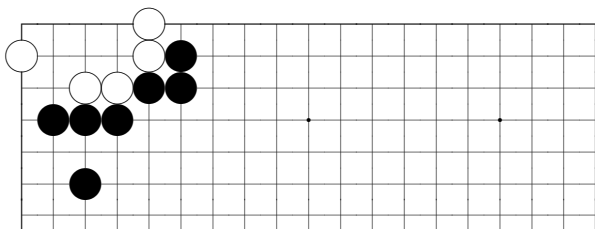
*problem 206*



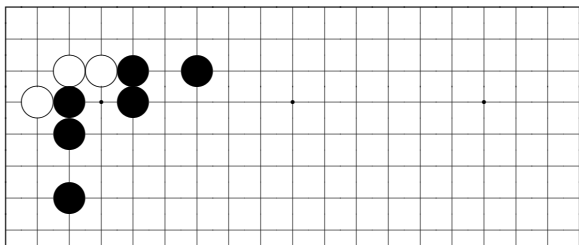
*problem 207*



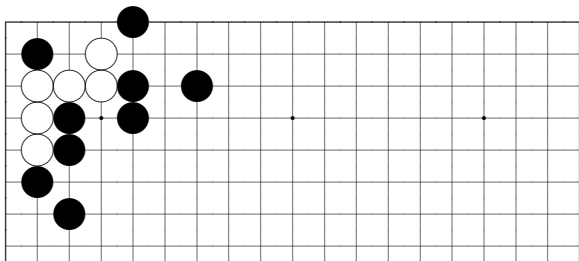
*problem 208*



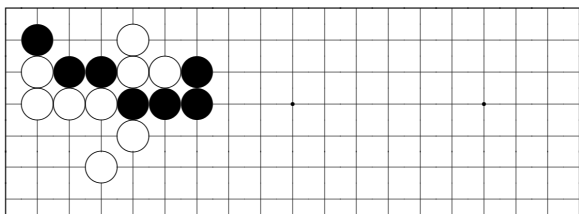
*problem 209*



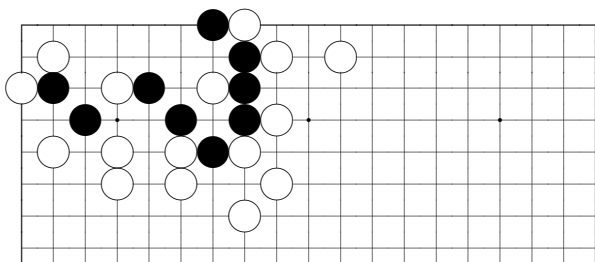
*problem 210*



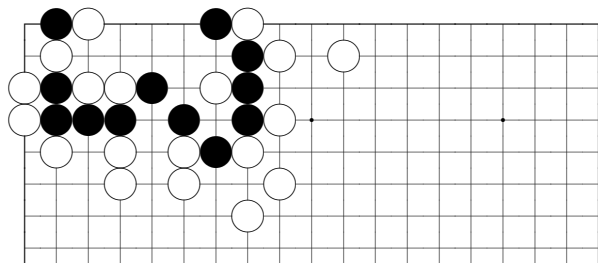
*problem 211*



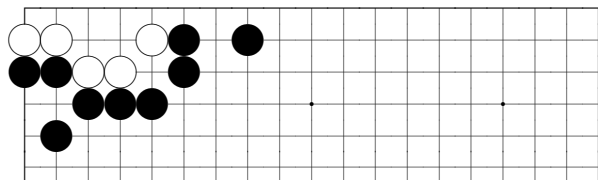
*problem 212*



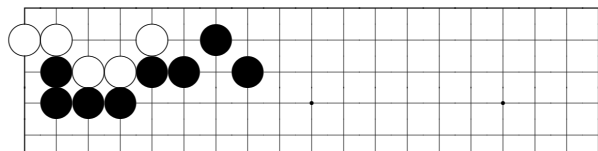
*problem 213*



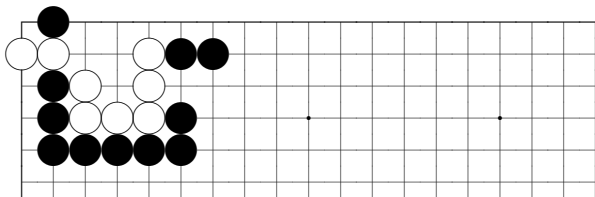
*problem 214*



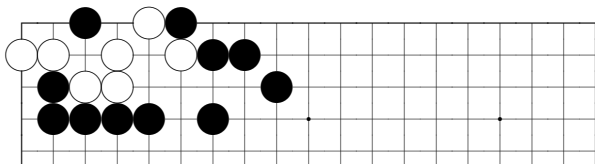
*problem 215*



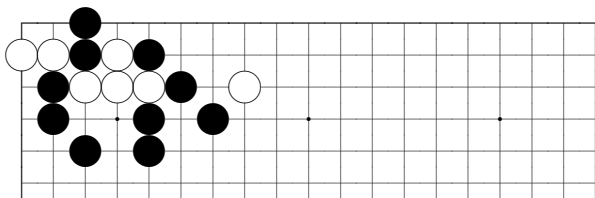
*problem 216*



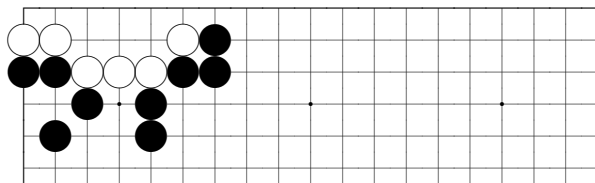
*problem 217*



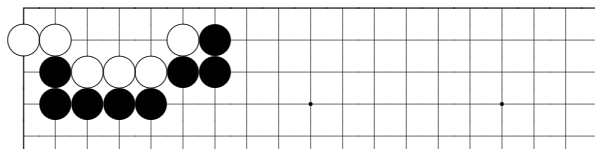
*problem 218*



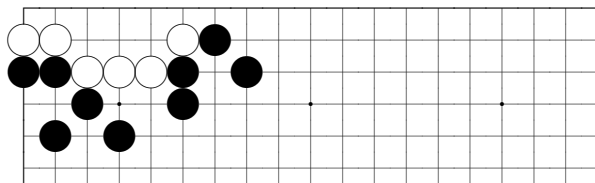
*problem 219*



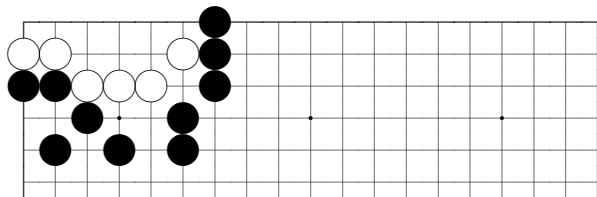
*problem 220*



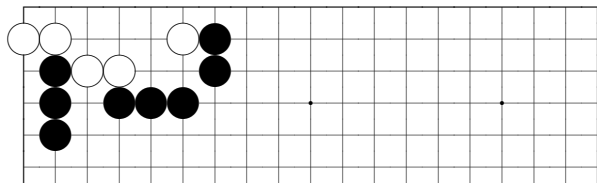
*problem 221*



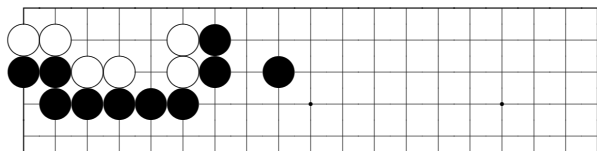
*problem 222*



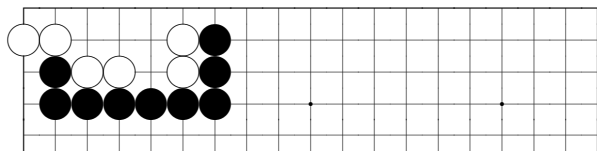
*problem 223*



*problem 224*

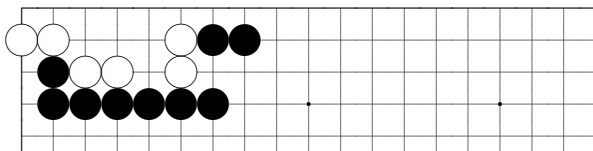


*problem 225*

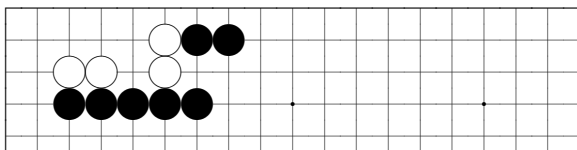


*problem 226*

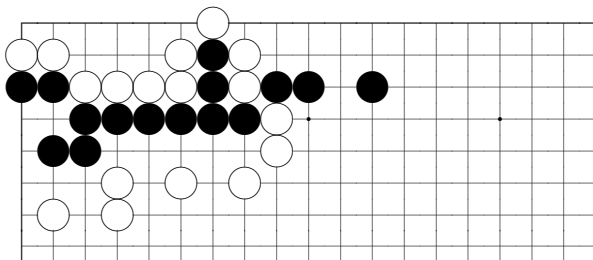




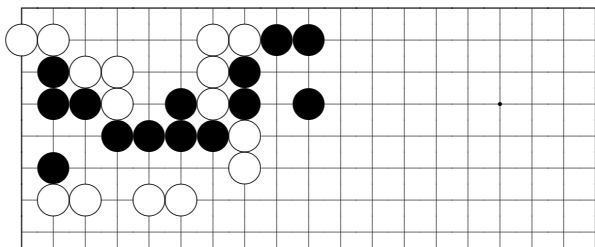
*problem 227*



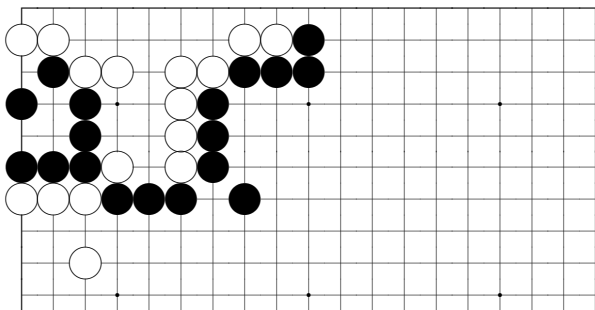
*problem 228*



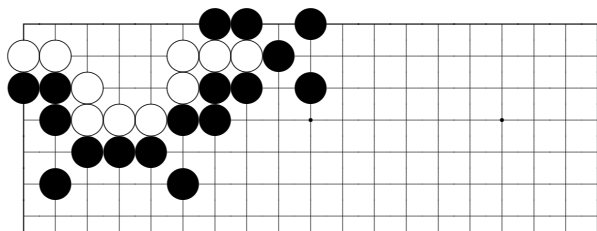
*problem 229*



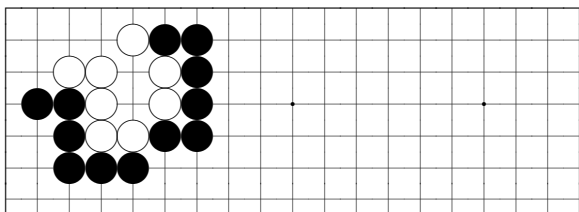
*problem 230*



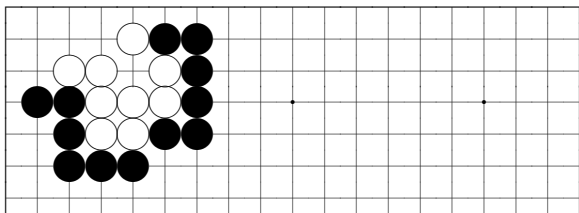
*problem 231*



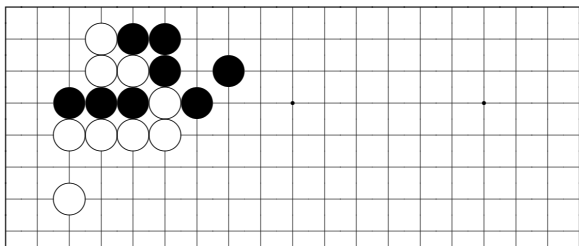
*problem 232*



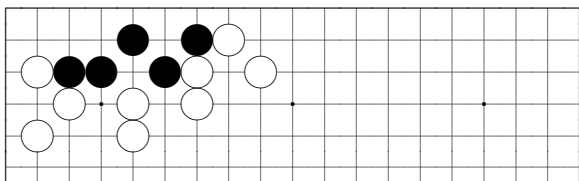
*problem 233*



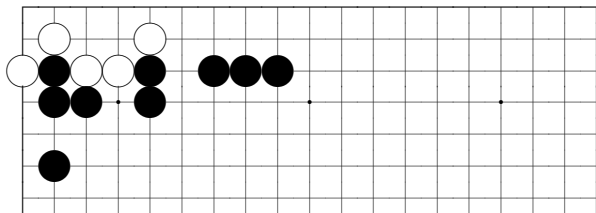
*problem 234*



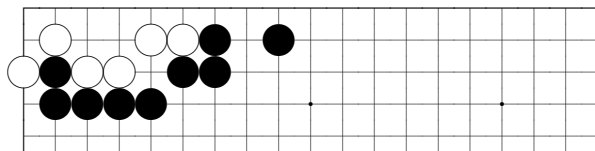
*problem 235*



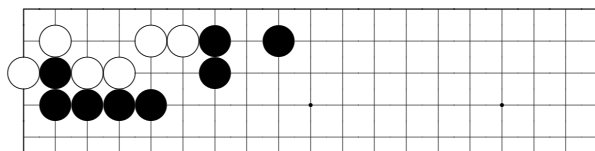
*problem 236*



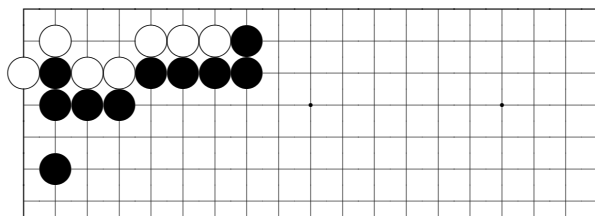
*problem 237*



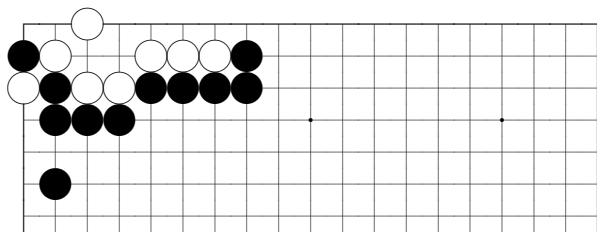
*problem 238*



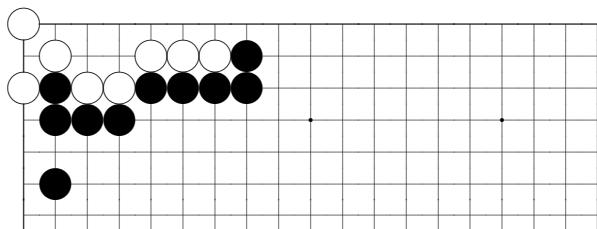
*problem 239*



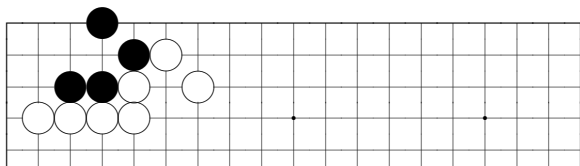
*problem 240*



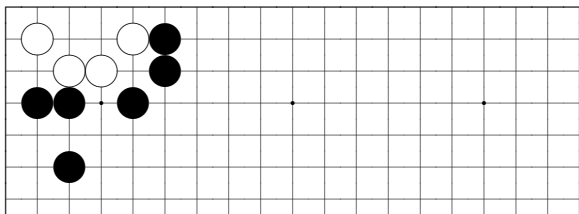
*problem 241*



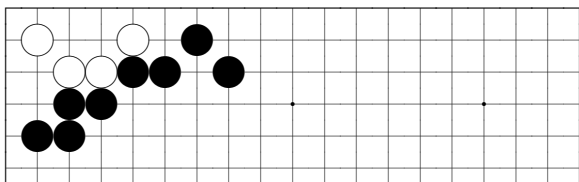
*problem 242*



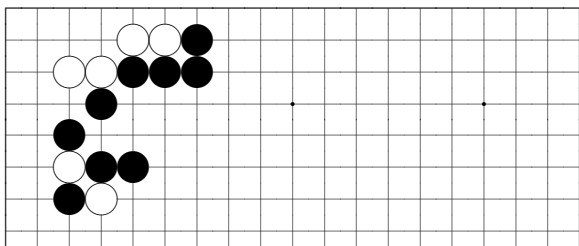
*problem 243*



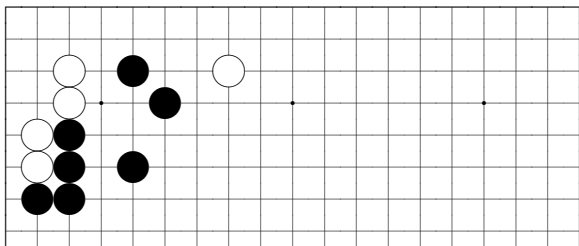
*problem 244*



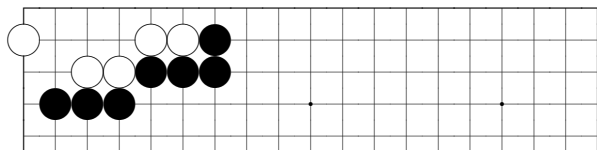
*problem 245*



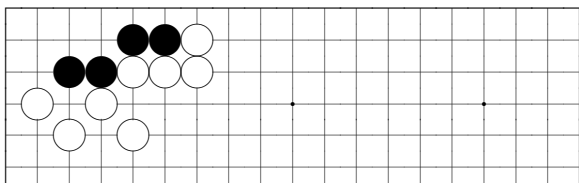
*problem 246*



*problem 247*

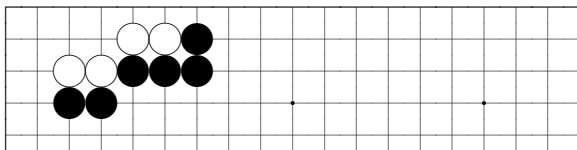


*problem 248*

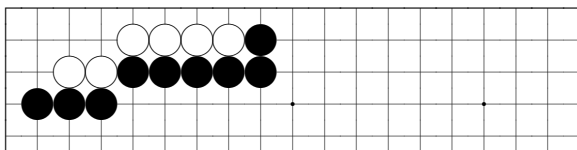


*problem 249*

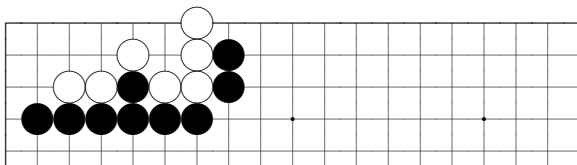




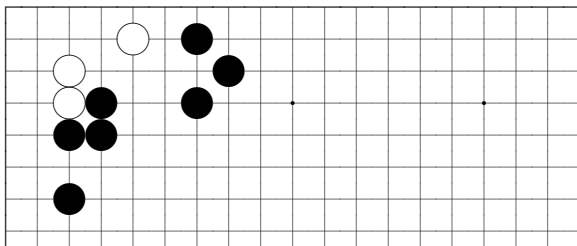
*problem 250*



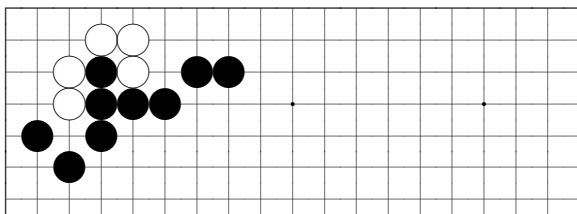
*problem 251*



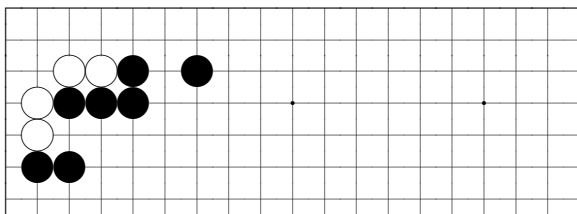
*problem 252*



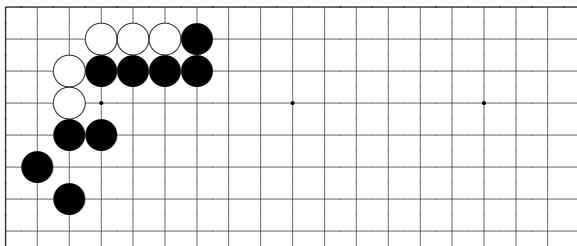
*problem 253*



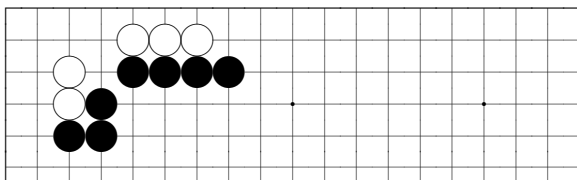
*problem 254*



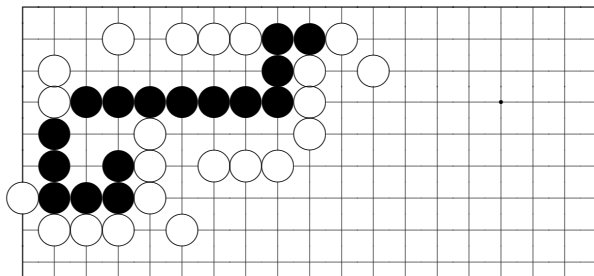
*problem 255*



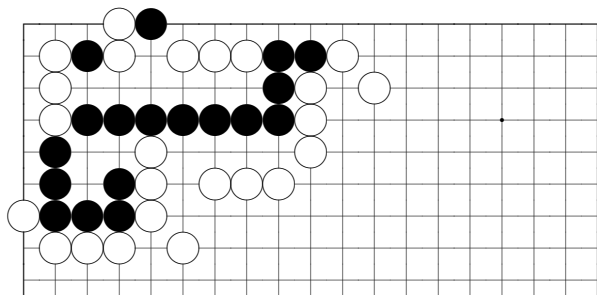
*problem 256*



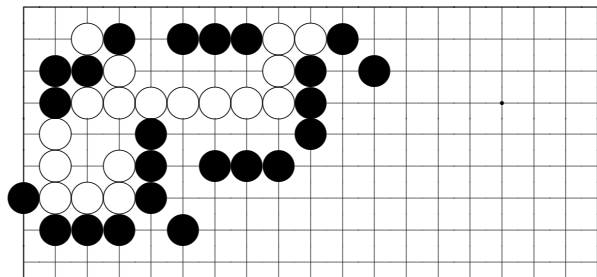
*problem 257*



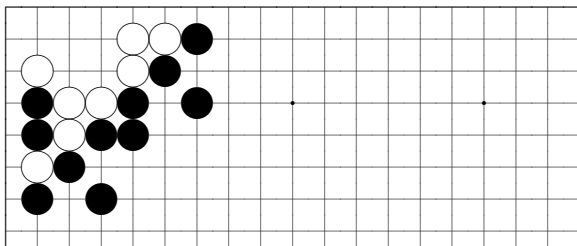
*problem 258*



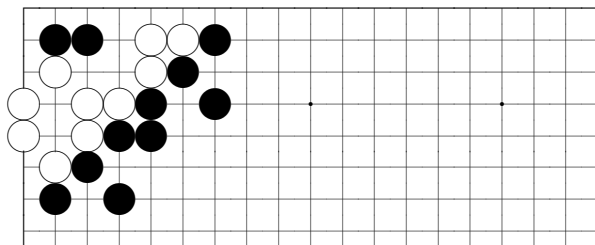
*problem 259*



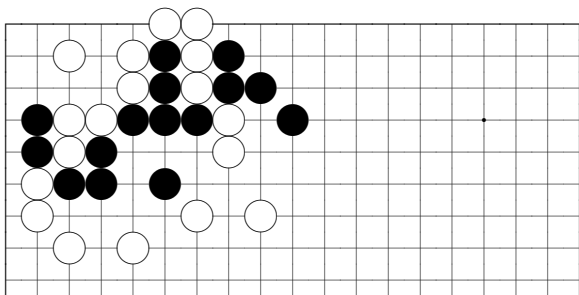
*problem 260*



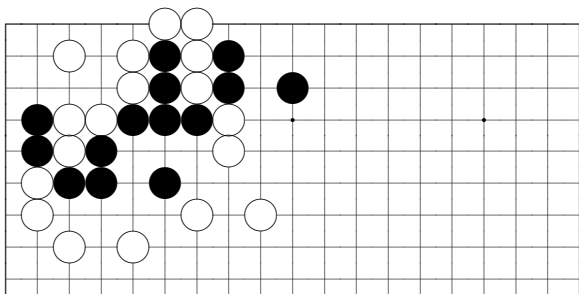
*problem 261*



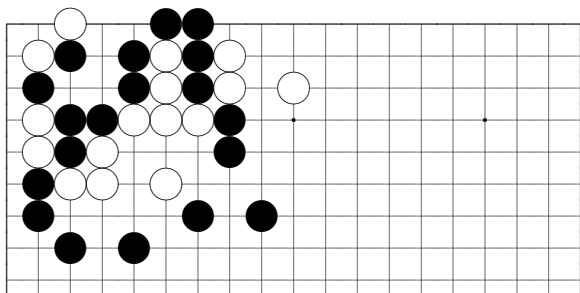
*problem 262*



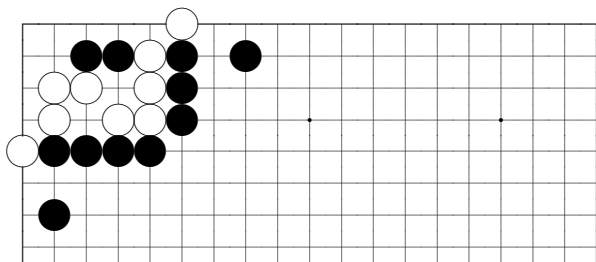
*problem 263*



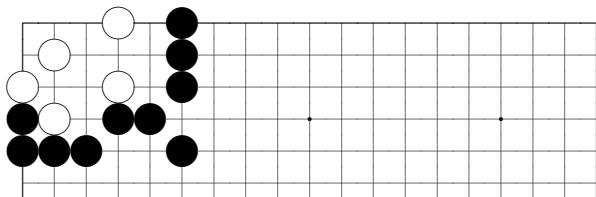
*problem 264*



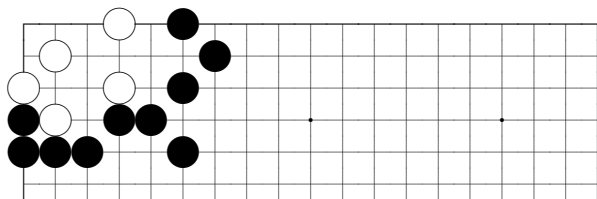
*problem 265*



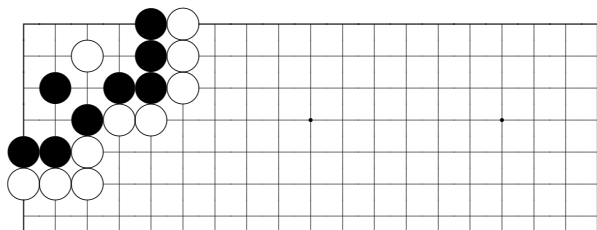
*problem 266*



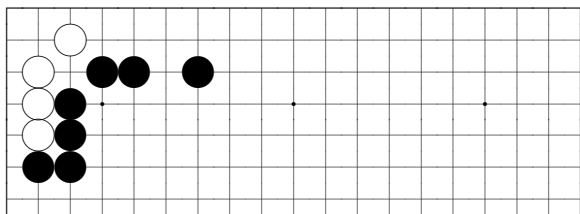
*problem 267*



*problem 268*

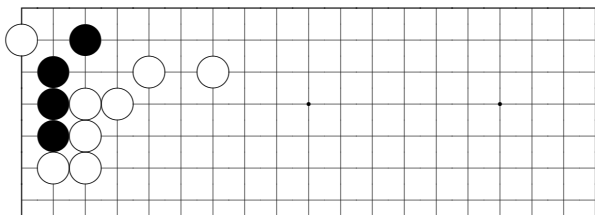


*problem 269*

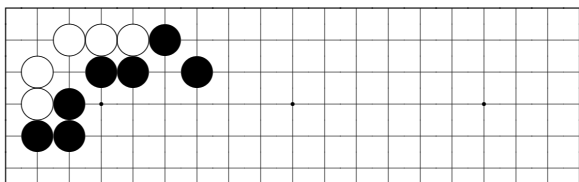


*problem 270*

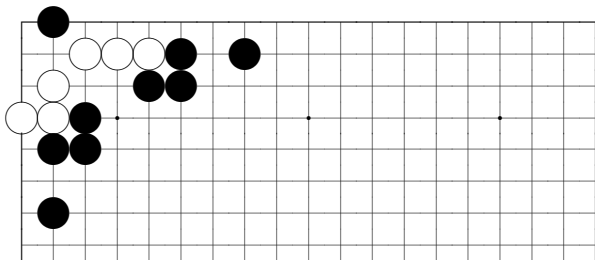




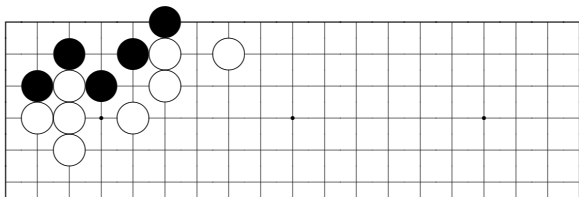
*problem 271*



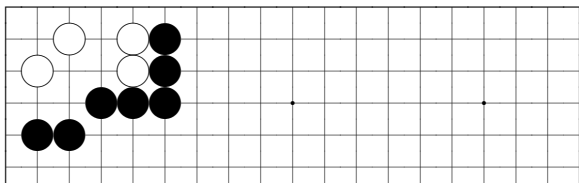
*problem 272*



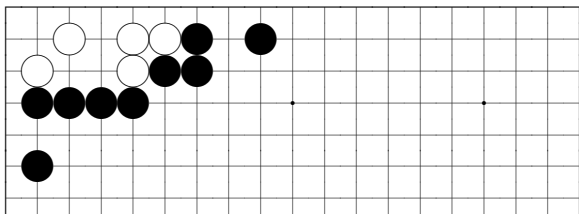
*problem 273*



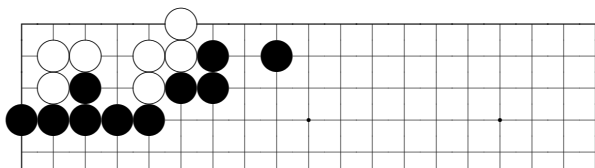
*problem 274*



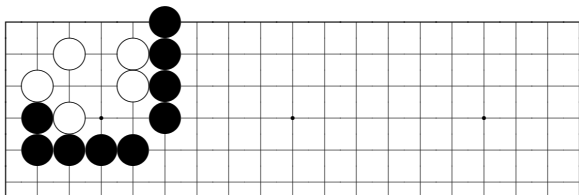
*problem 275*



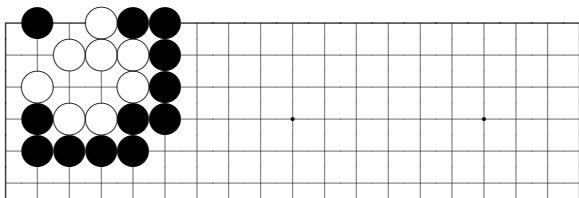
*problem 276*



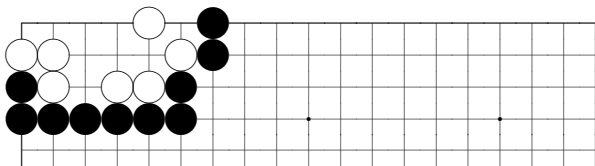
*problem 277*



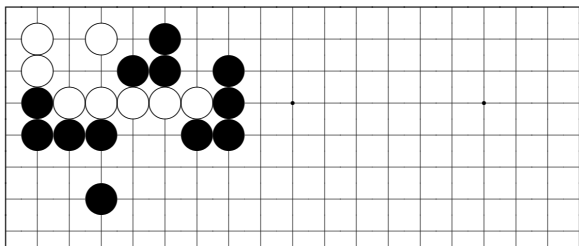
*problem 278*



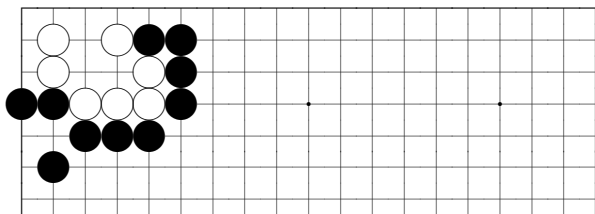
*problem 279*



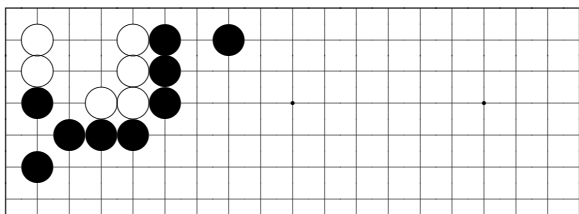
*problem 280*



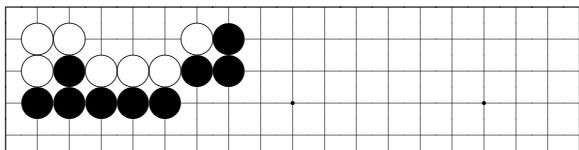
*problem 281*



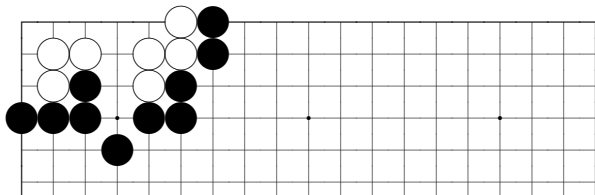
*problem 282*



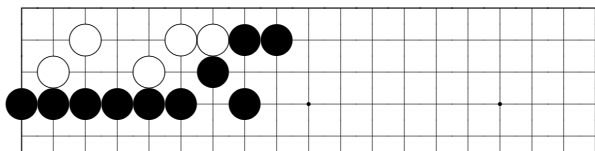
*problem 283*



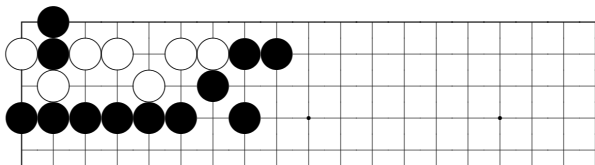
*problem 284*



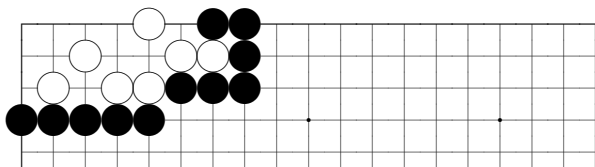
*problem 285*



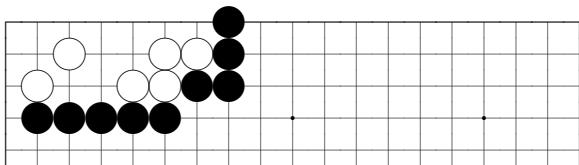
*problem 286*



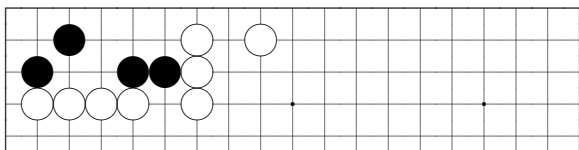
*problem 287*



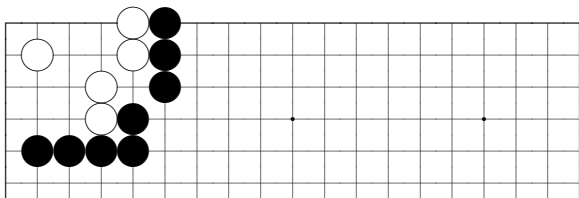
*problem 288*



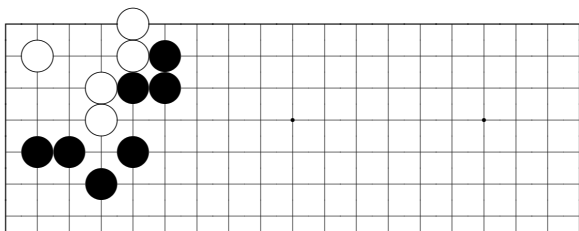
*problem 289*



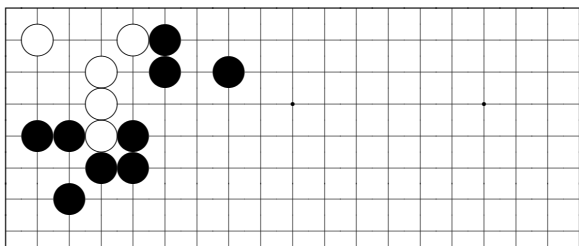
*problem 290*



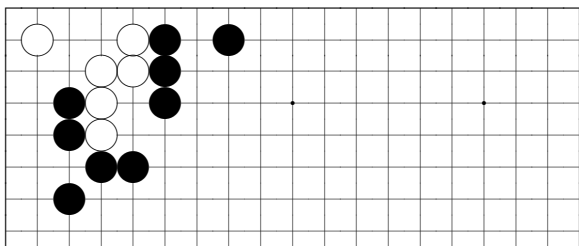
*problem 291*



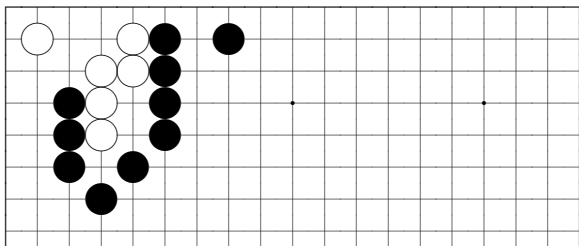
*problem 292*



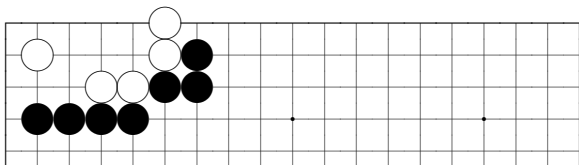
*problem 293*



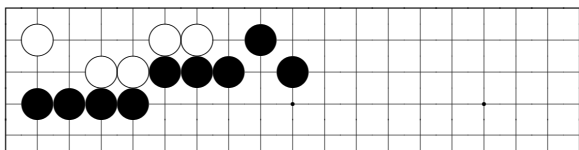
*problem 294*



*problem 295*

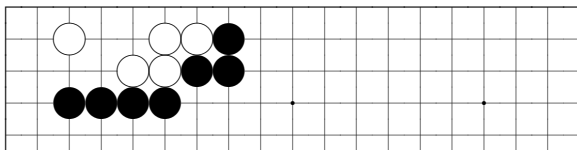


*problem 296*

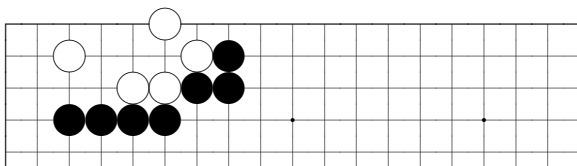


*problem 297*

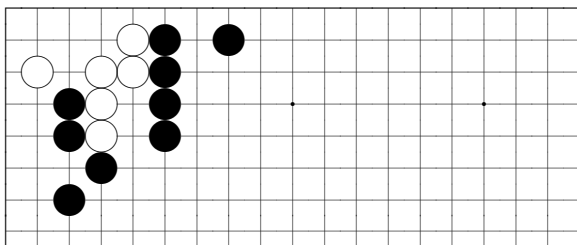




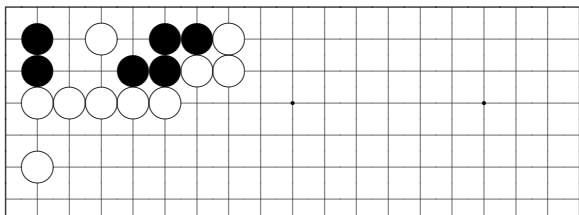
*problem 298*



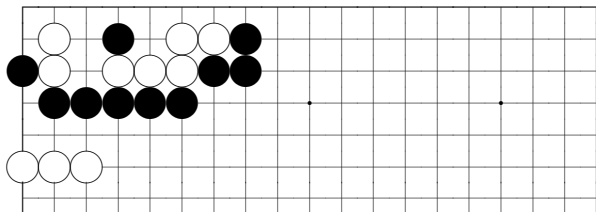
*problem 299*



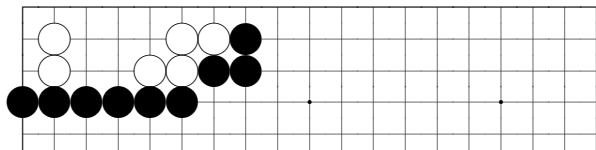
*problem 300*



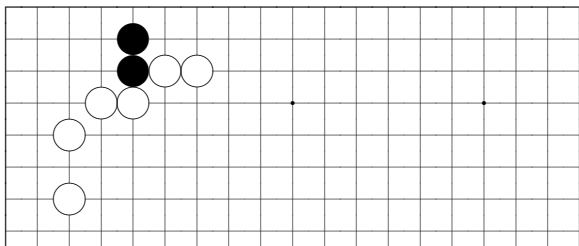
*problem 301*



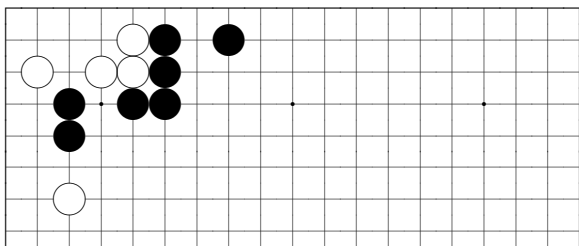
*problem 302*



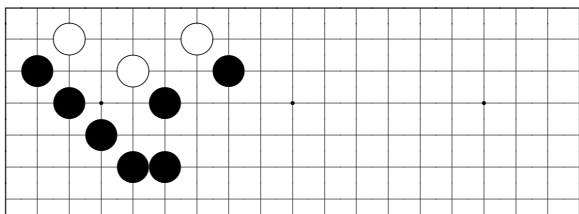
*problem 303*



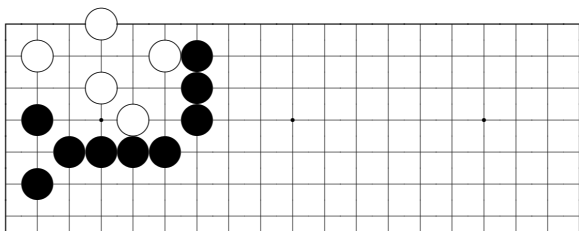
*problem 304*



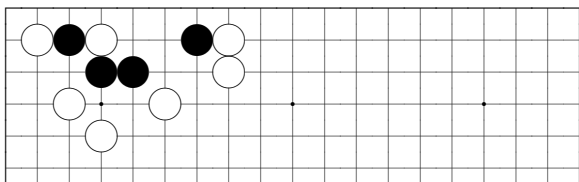
*problem 305*



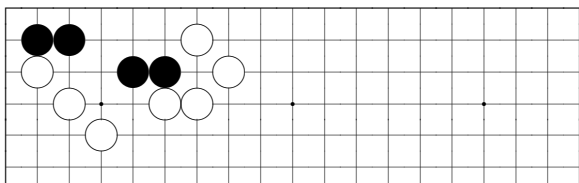
*problem 306*



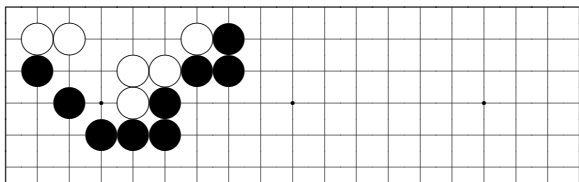
*problem 307*



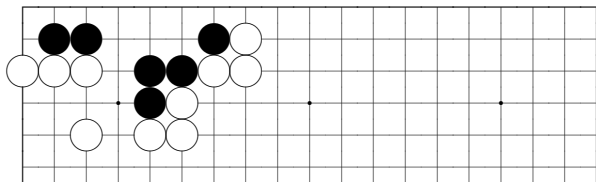
*problem 308*



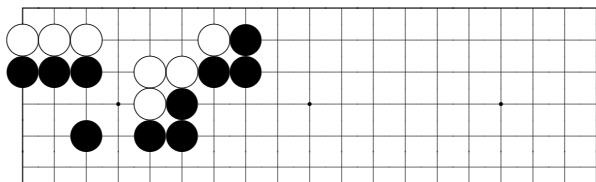
*problem 309*



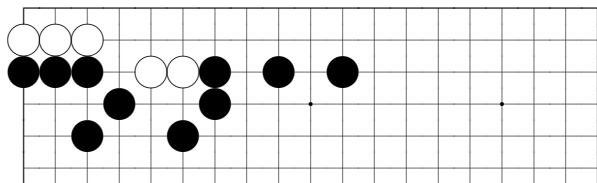
*problem 310*



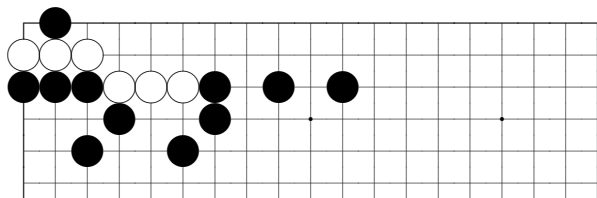
*problem 311*



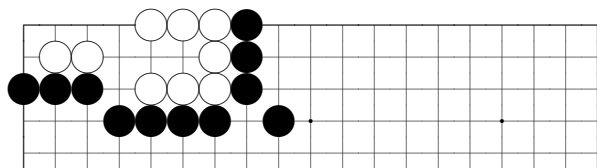
*problem 312*



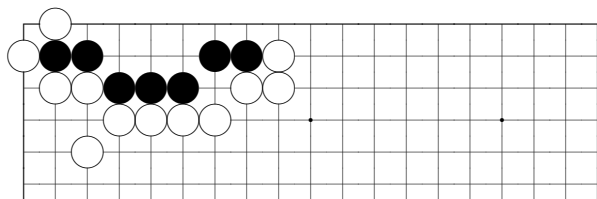
*problem 313*



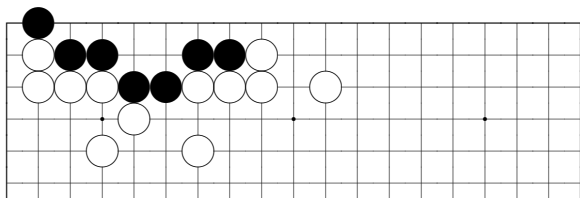
*problem 314*



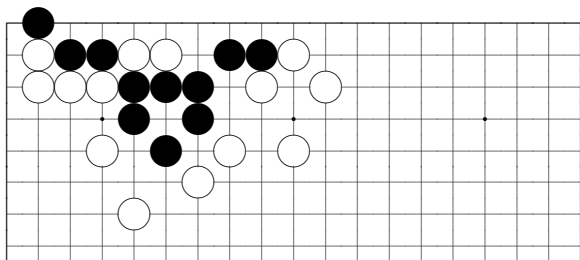
*problem 315*



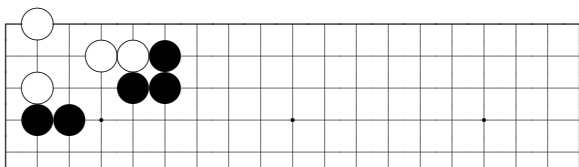
*problem 316*



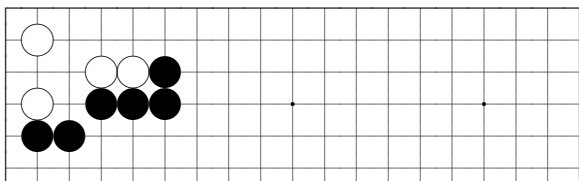
*problem 317*



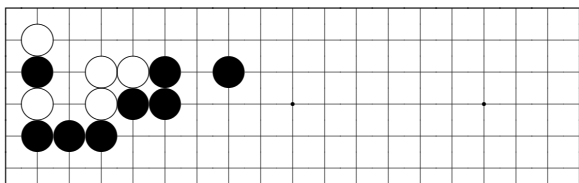
*problem 318*



*problem 319*

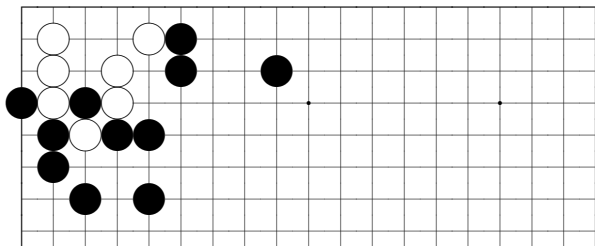


*problem 320*

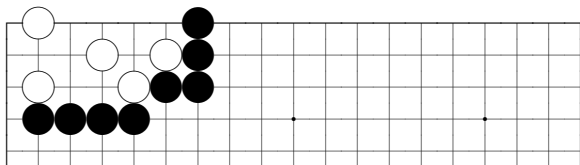


*problem 321*

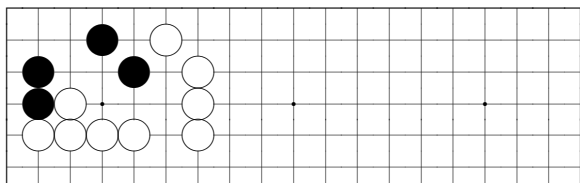




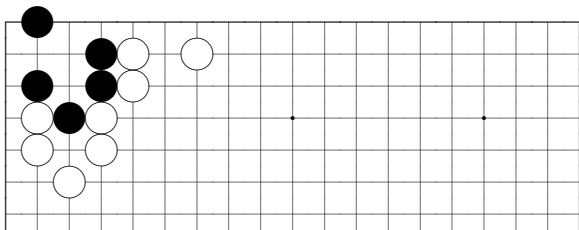
*problem 322*



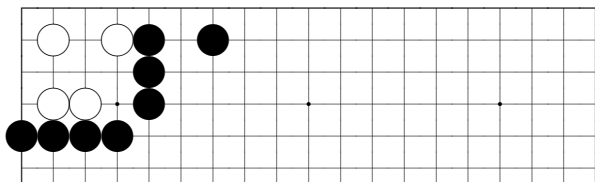
*problem 323*



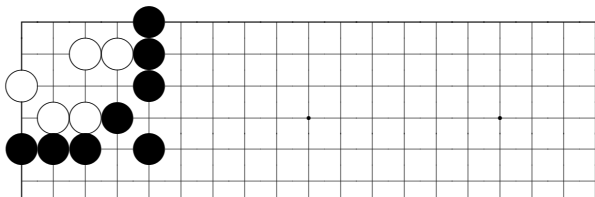
*problem 324*



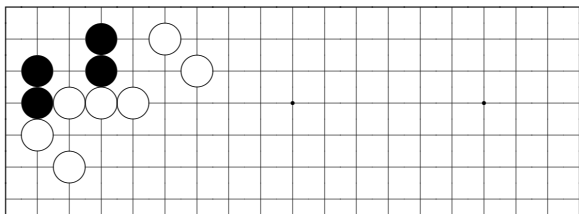
*problem 325*



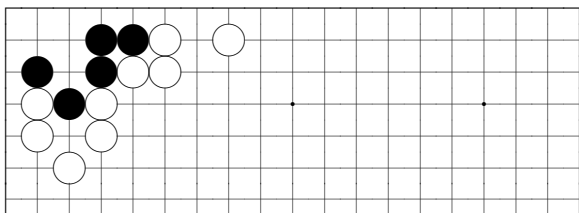
*problem 326*



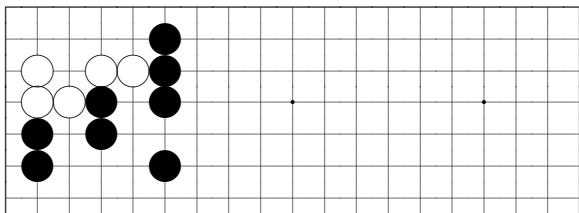
*problem 327*



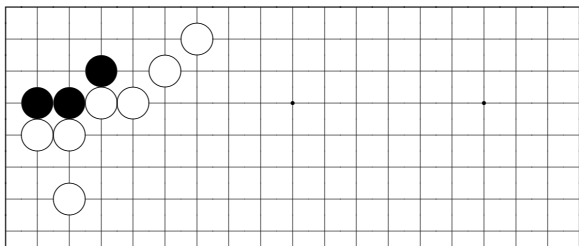
*problem 328*



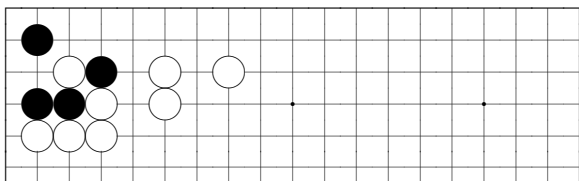
*problem 329*



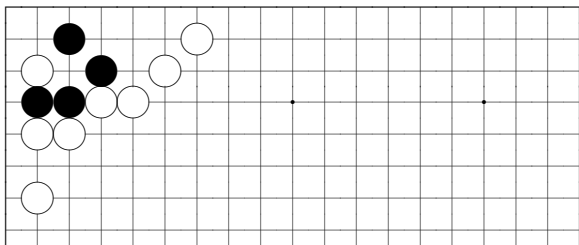
*problem 330*



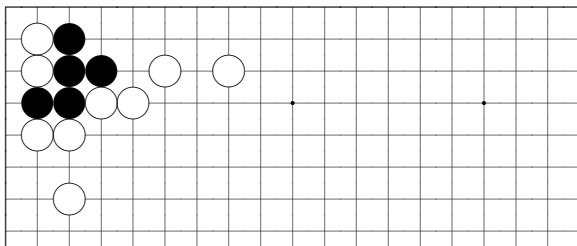
*problem 331*



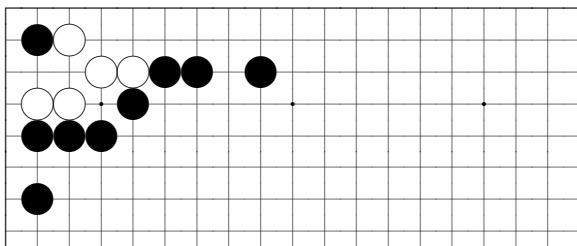
*problem 332*



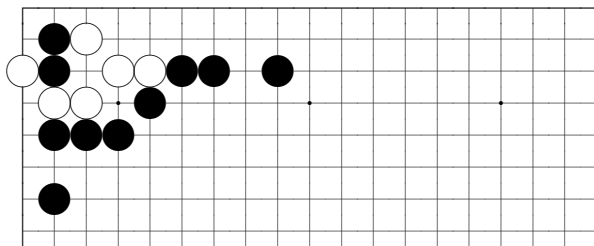
*problem 333*



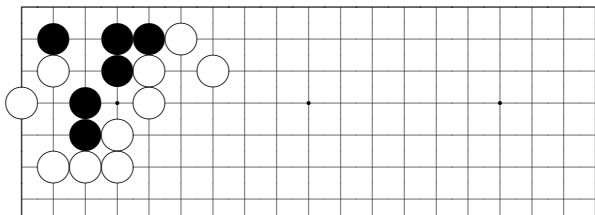
*problem 334*



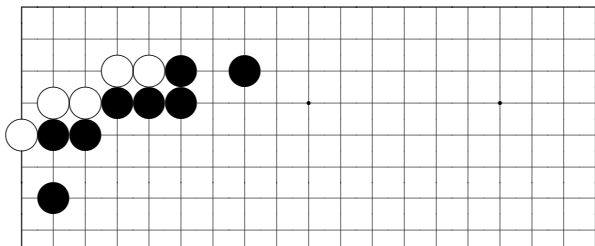
*problem 335*



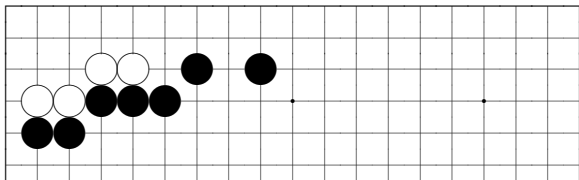
*problem 336*



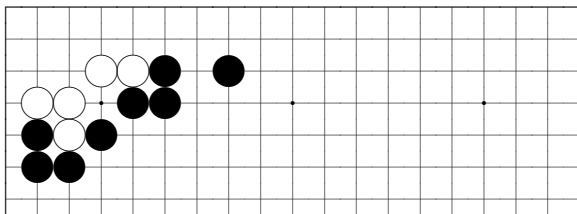
*problem 337*



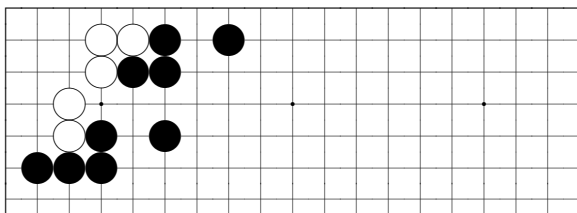
*problem 338*



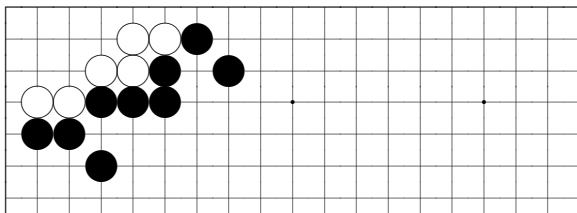
*problem 339*



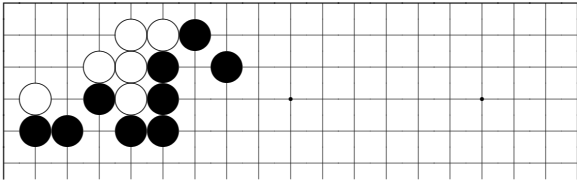
*problem 340*



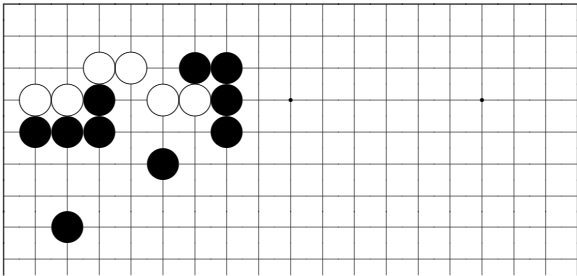
*problem 341*



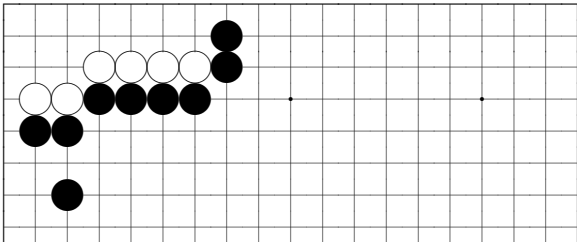
*problem 342*



*problem 343*

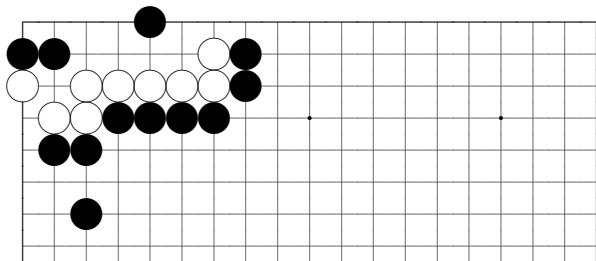


*problem 344*

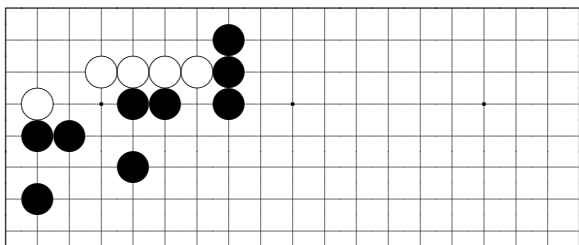


*problem 345*

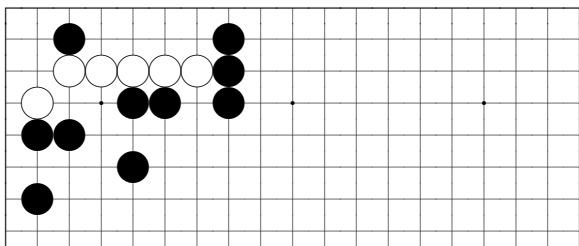




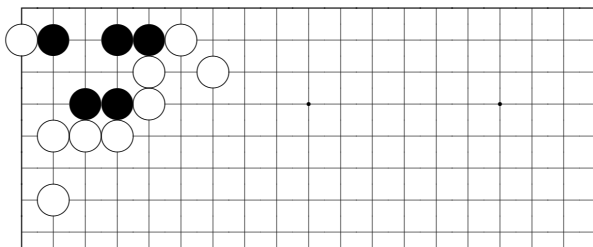
*problem 346*



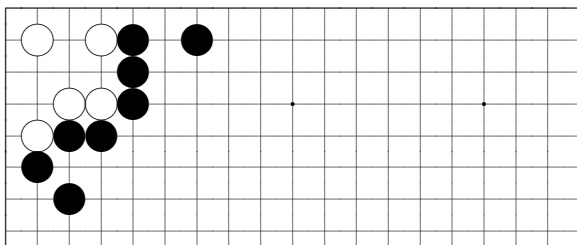
*problem 347*



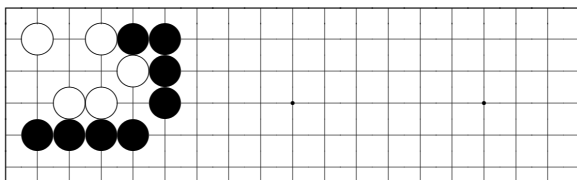
*problem 348*



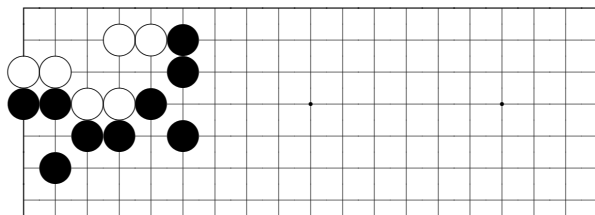
*problem 349*



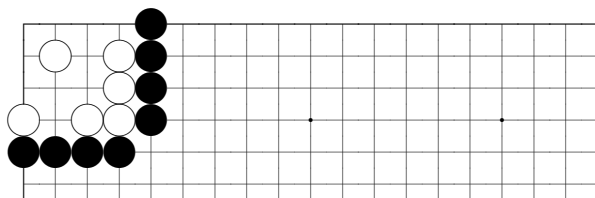
*problem 350*



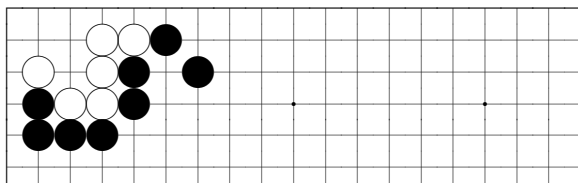
*problem 351*



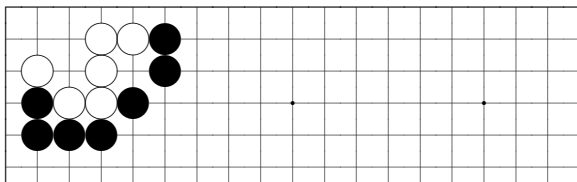
*problem 352*



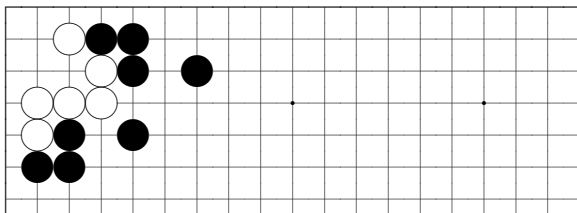
*problem 353*



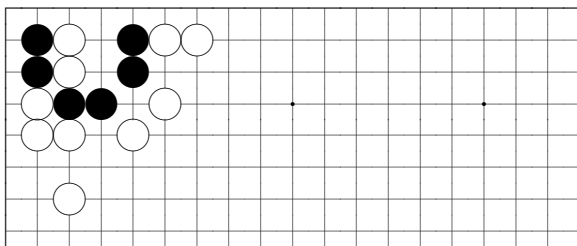
*problem 354*



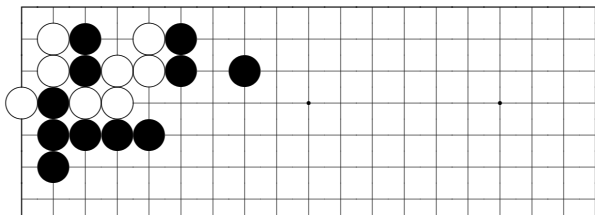
*problem 355*



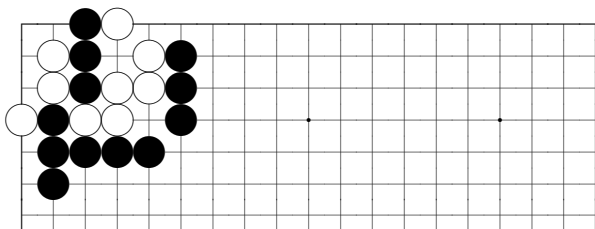
*problem 356*



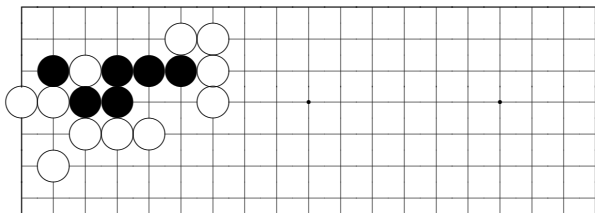
*problem 357*



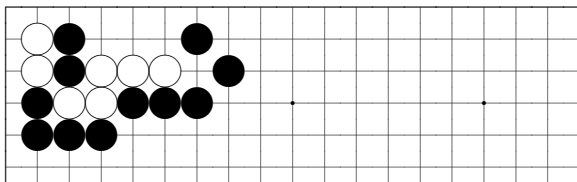
*problem 358*



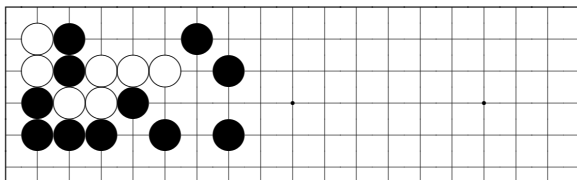
*problem 359*



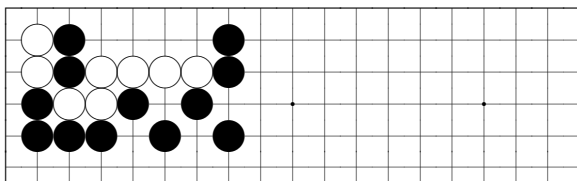
*problem 360*



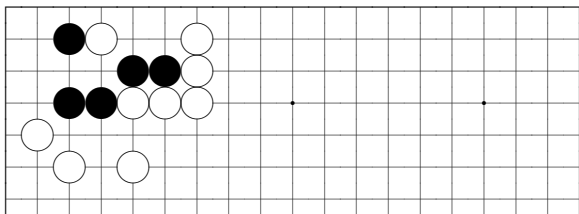
*problem 361*



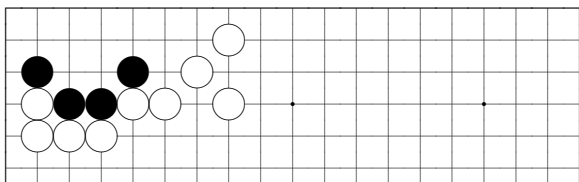
*problem 362*



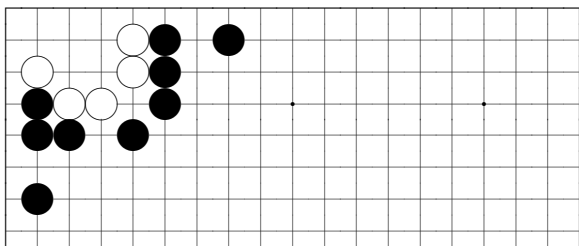
*problem 363*



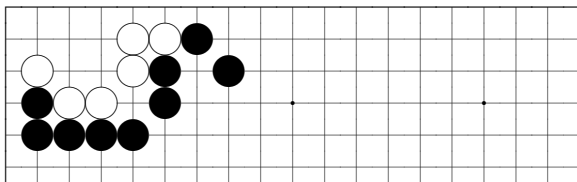
*problem 364*



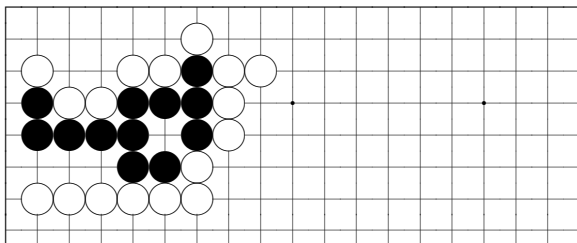
*problem 365*



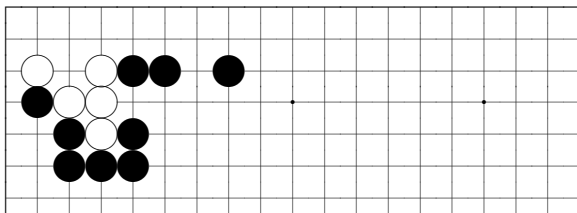
*problem 366*



*problem 367*

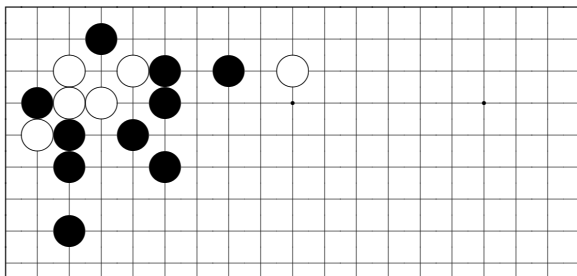


*problem 368*

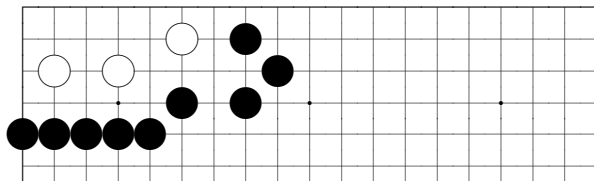


*problem 369*

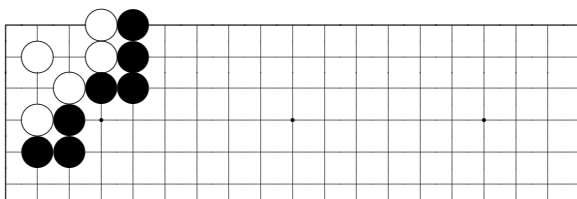




*problem 370*

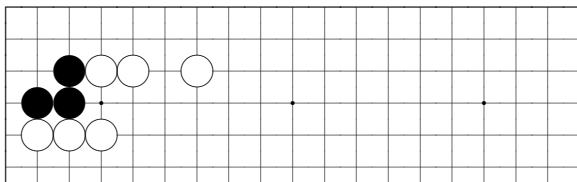


*problem 371*

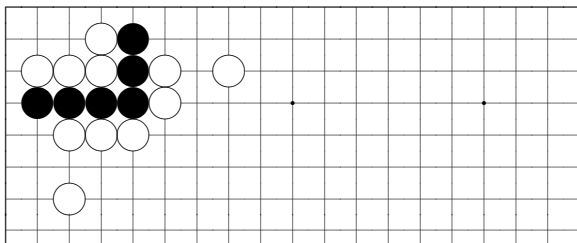


*problem 372*

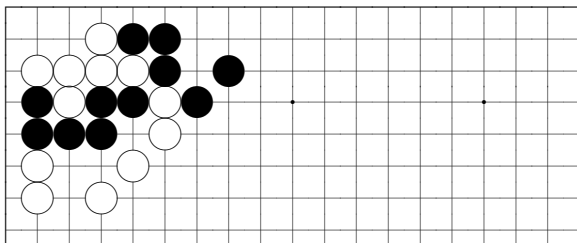




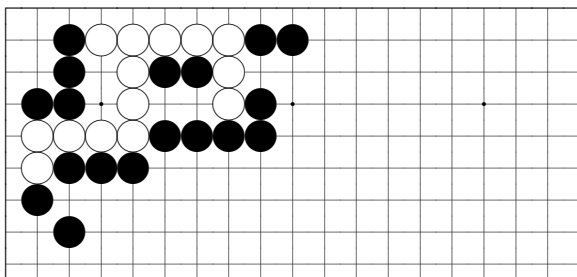
*problem 376*



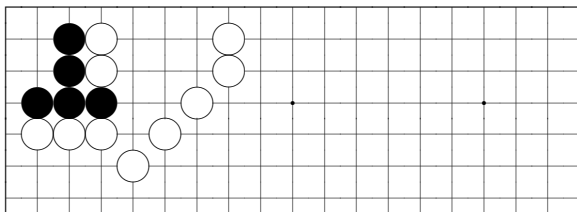
*problem 377*



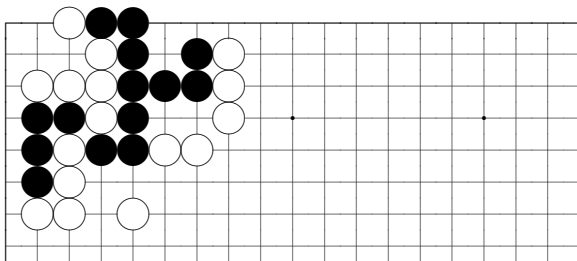
*problem 378*



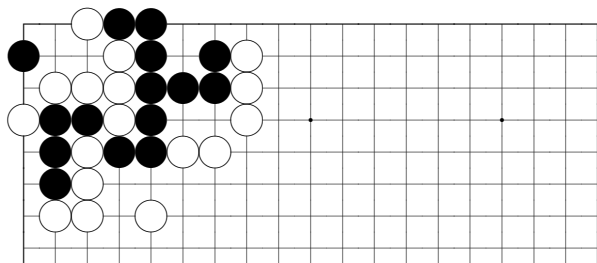
*problem 379*



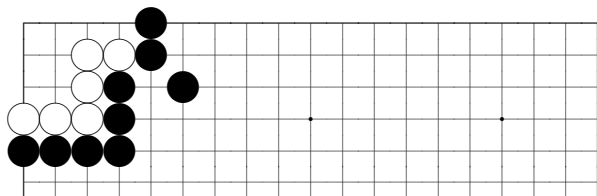
*problem 380*



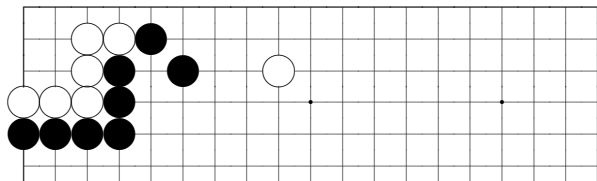
*problem 381*



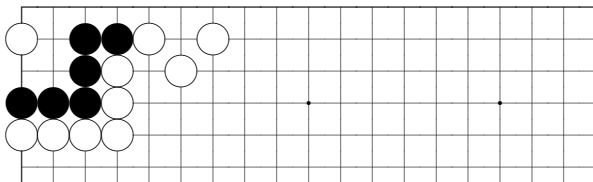
*problem 382*



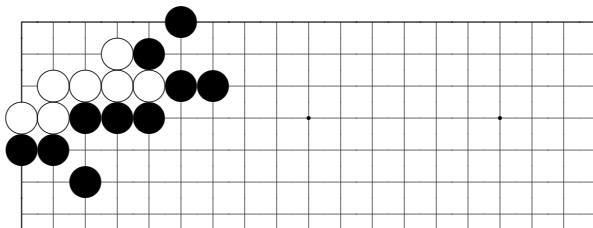
*problem 383*



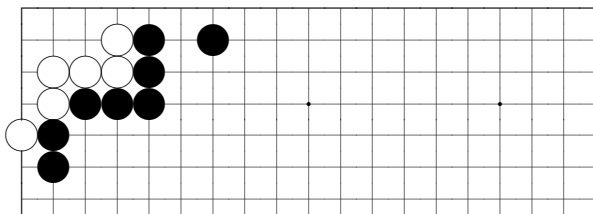
*problem 384*



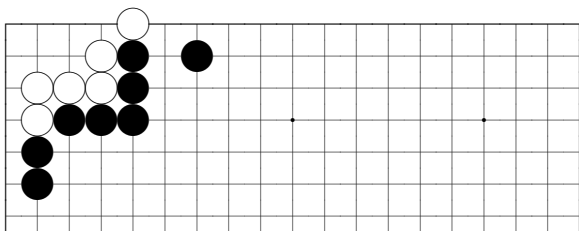
*problem 385*



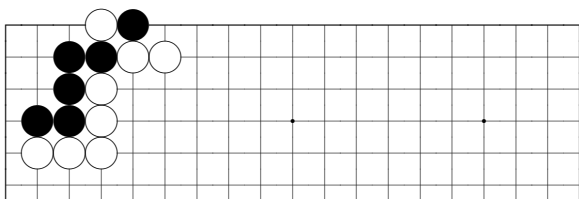
*problem 386*



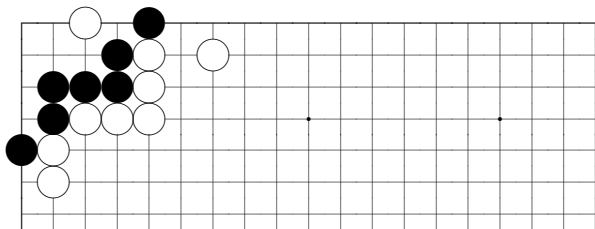
*problem 387*



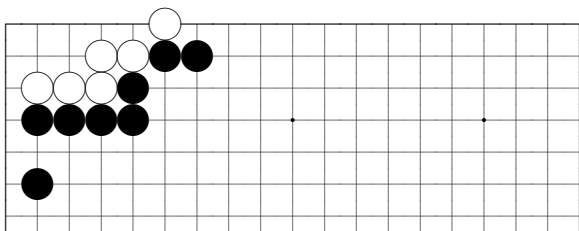
*problem 388*



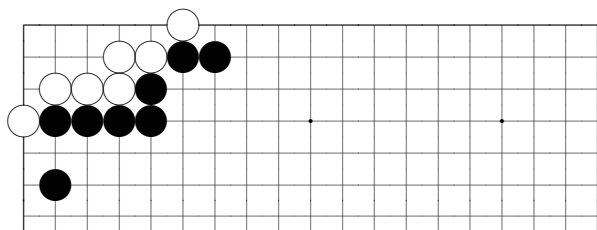
*problem 389*



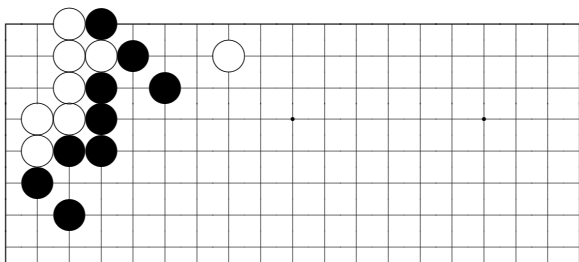
*problem 390*



*problem 391*

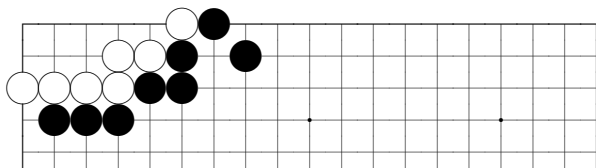


*problem 392*

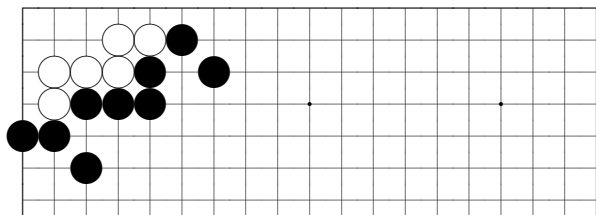


*problem 393*

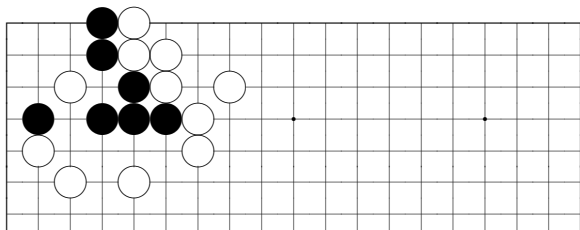




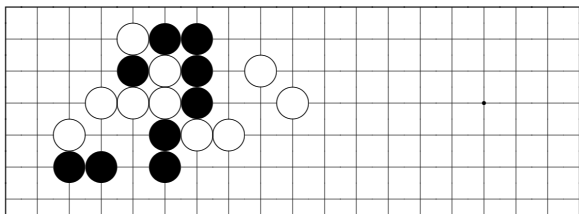
*problem 394*



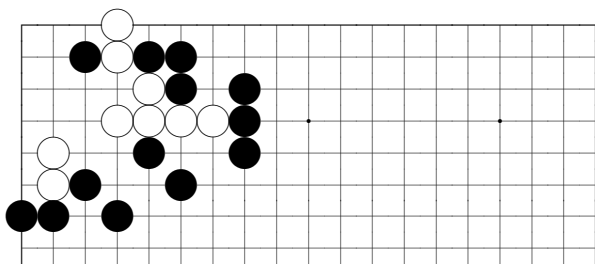
*problem 395*



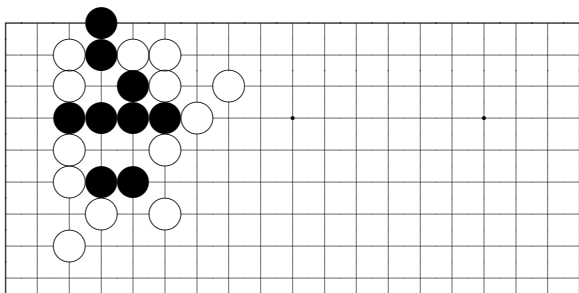
*problem 396*



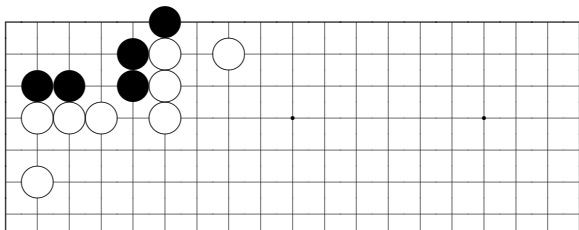
*problem 397*



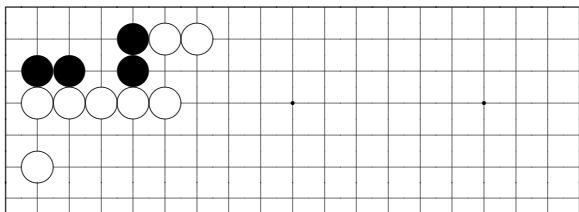
*problem 398*



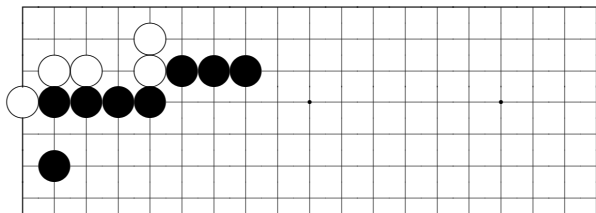
*problem 399*



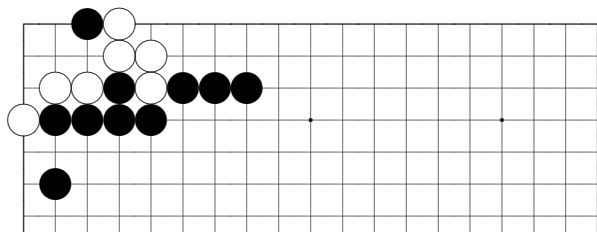
*problem 400*



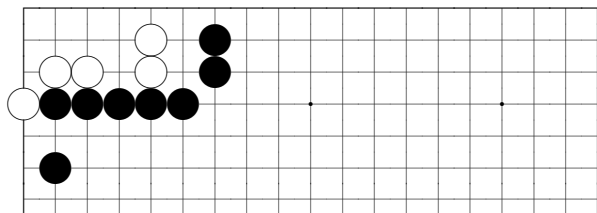
*problem 401*



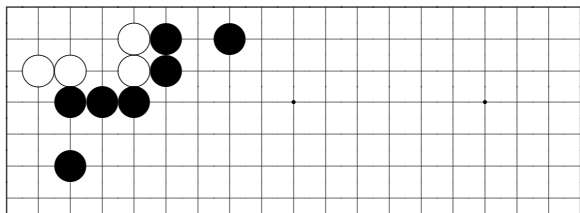
*problem 402*



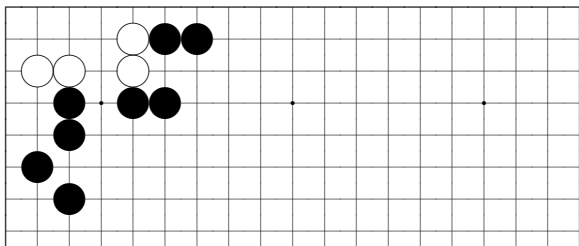
*problem 403*



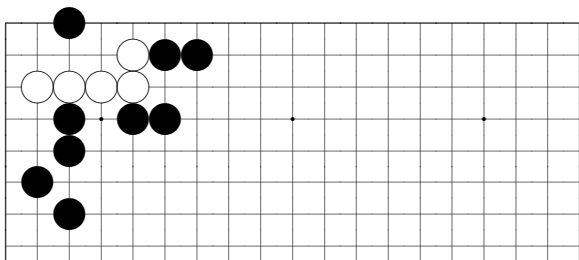
*problem 404*



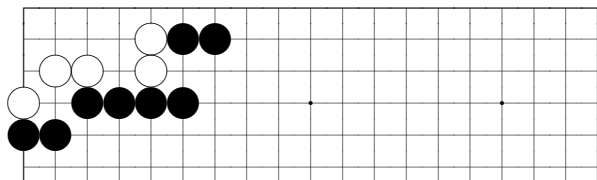
*problem 405*



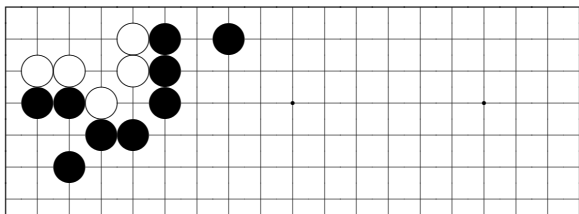
*problem 406*



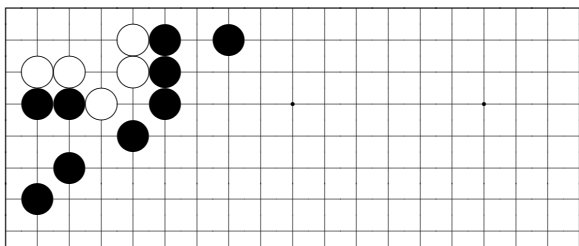
*problem 407*



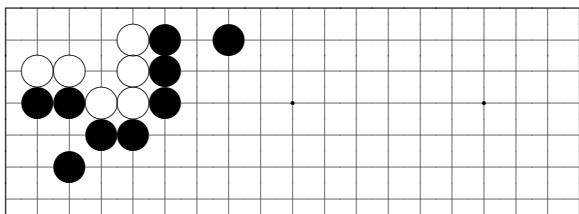
*problem 408*



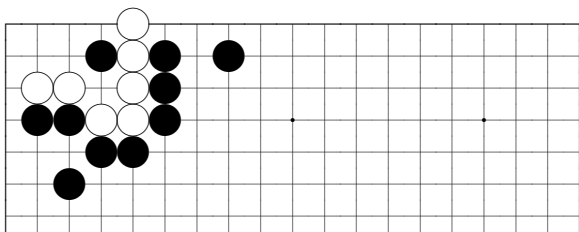
*problem 409*



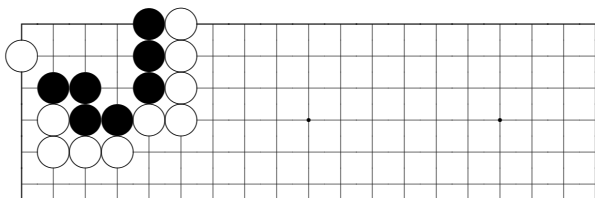
*problem 410*



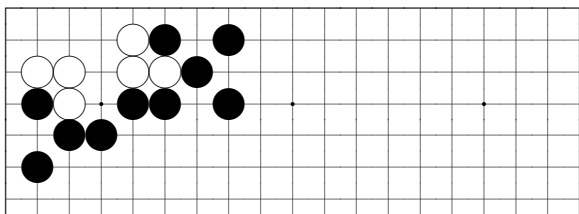
*problem 411*



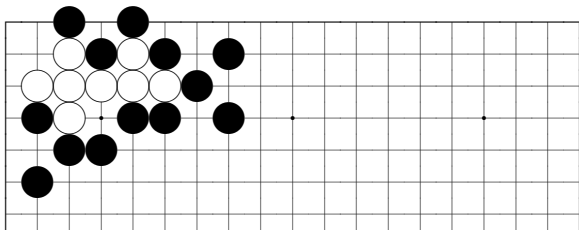
*problem 412*



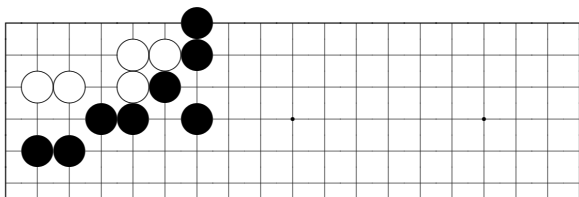
*problem 413*



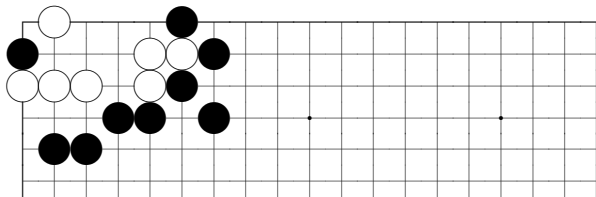
*problem 414*



*problem 415*

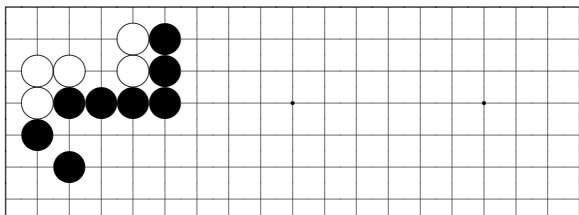


*problem 416*

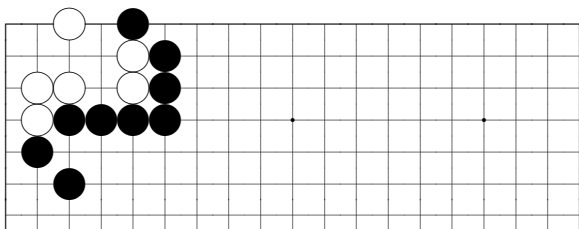


*problem 417*

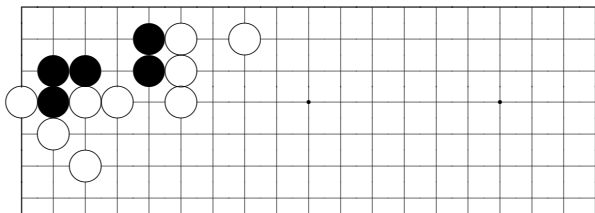




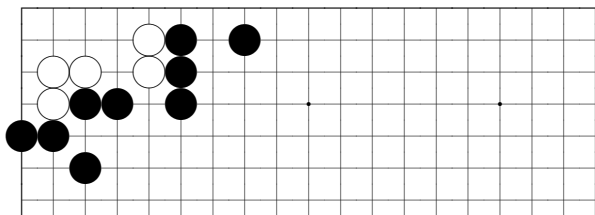
*problem 418*



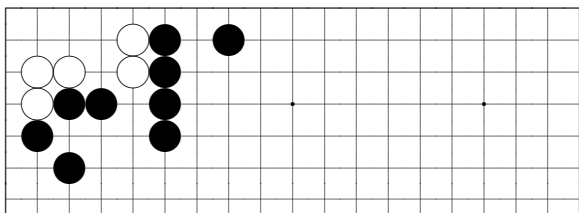
*problem 419*



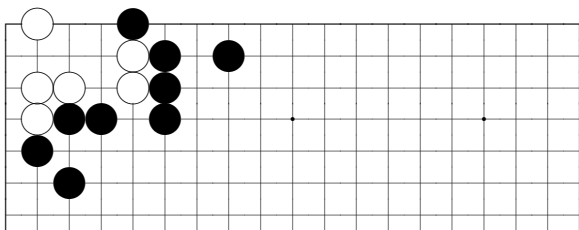
*problem 420*



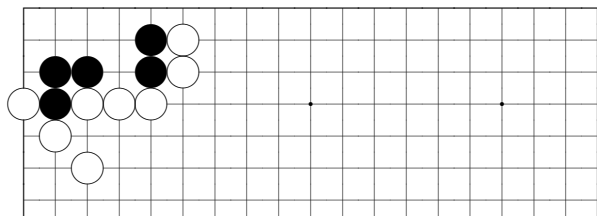
*problem 421*



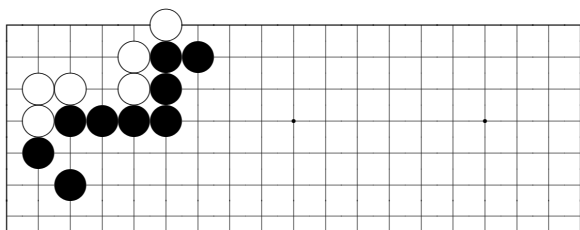
*problem 422*



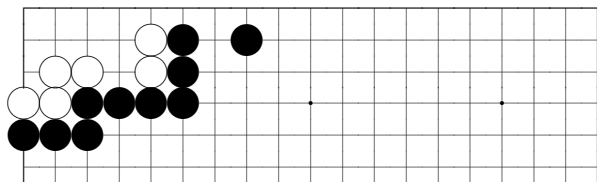
*problem 423*



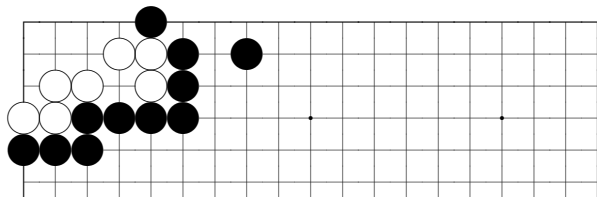
*problem 424*



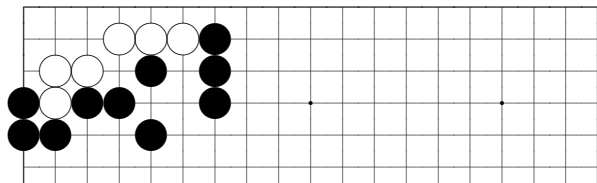
*problem 425*



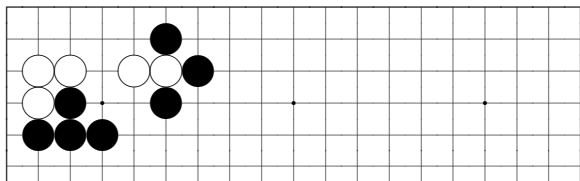
*problem 426*



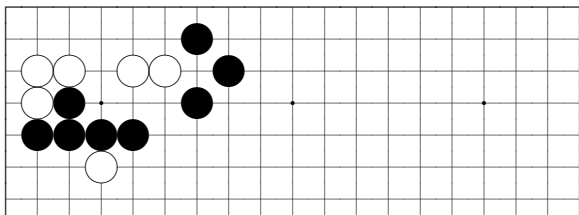
*problem 427*



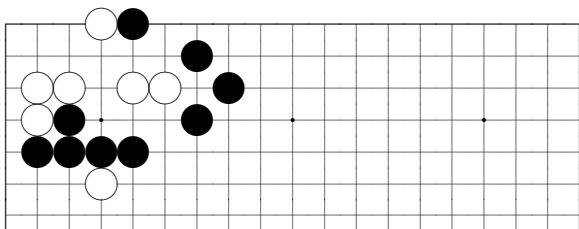
*problem 428*



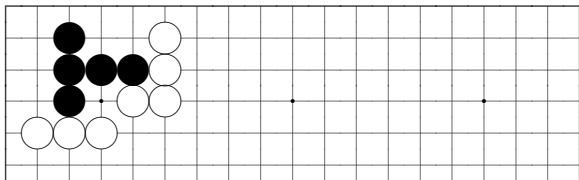
*problem 429*



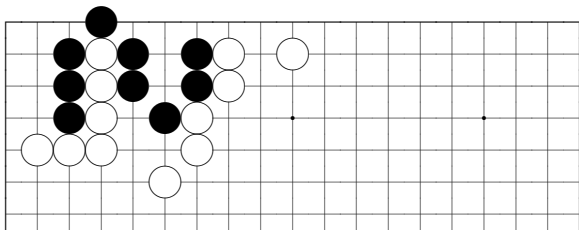
*problem 430*



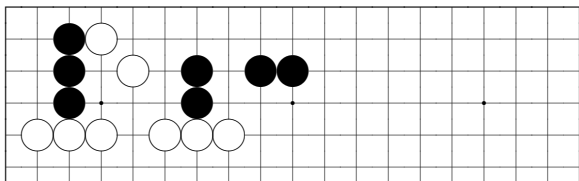
*problem 431*



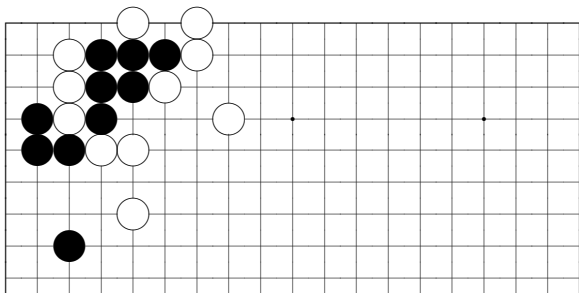
*problem 432*



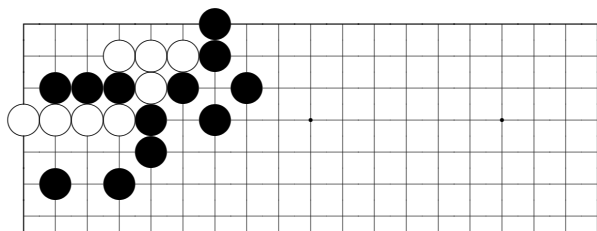
*problem 433*



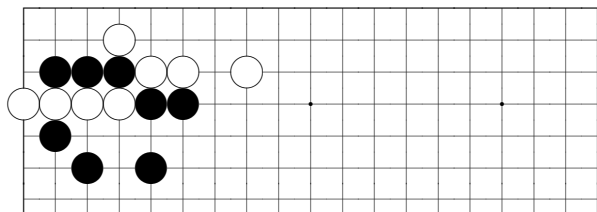
*problem 434*



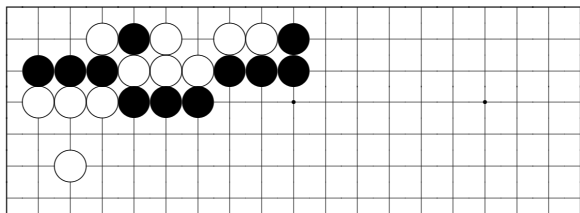
*problem 435*



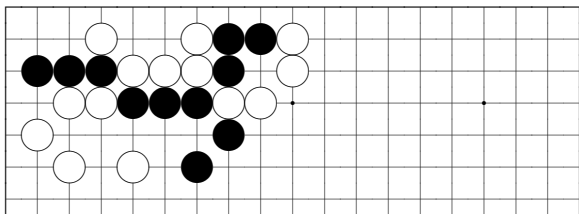
*problem 436*



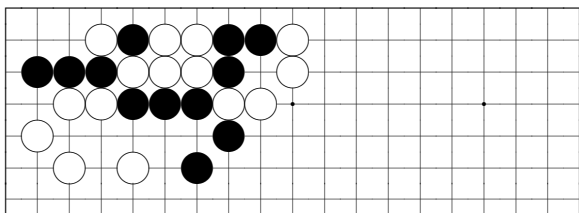
*problem 437*



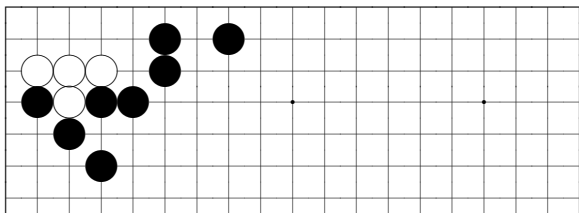
*problem 438*



*problem 439*

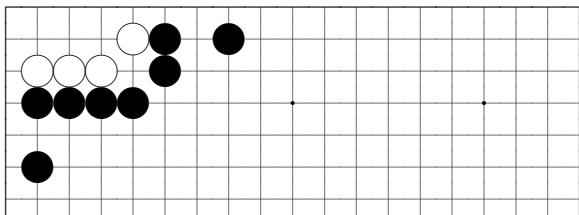


*problem 440*

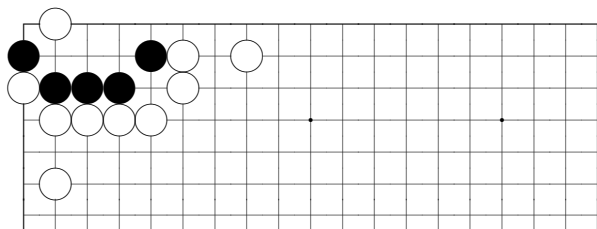


*problem 441*

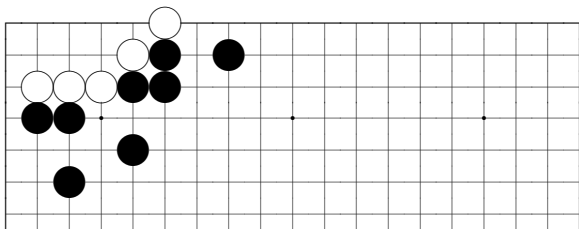




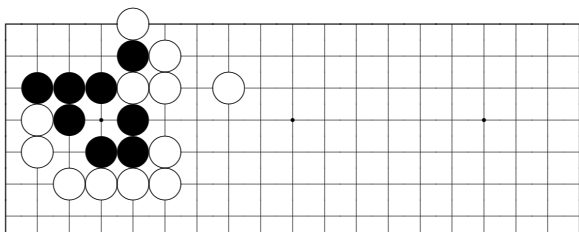
*problem 442*



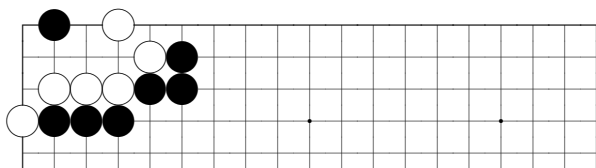
*problem 443*



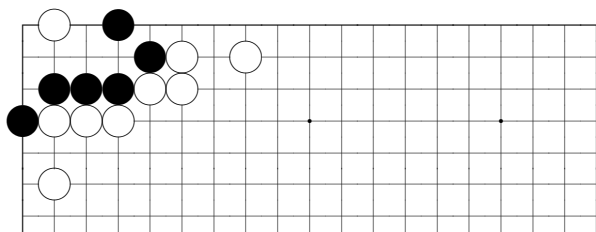
*problem 444*



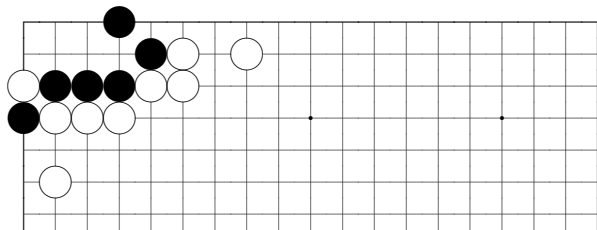
*problem 445*



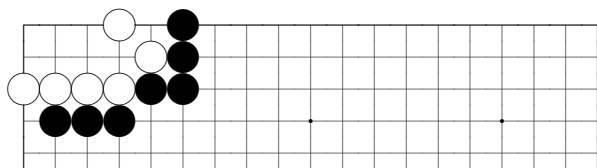
*problem 446*



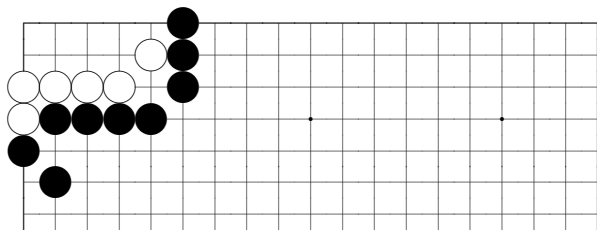
*problem 447*



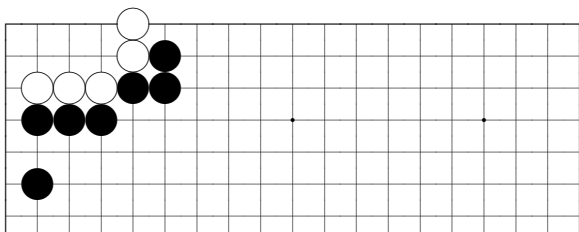
*problem 448*



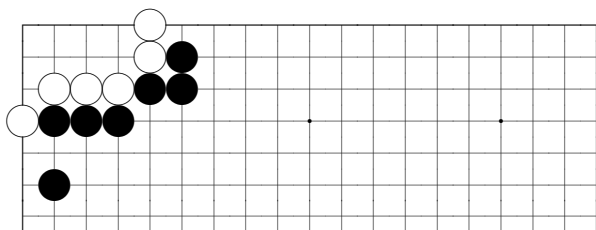
*problem 449*



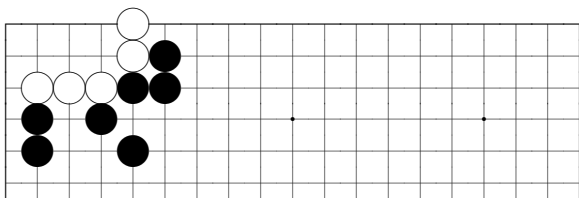
*problem 450*



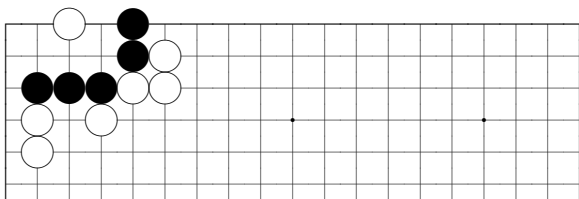
*problem 451*



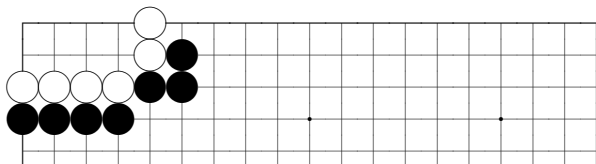
*problem 452*



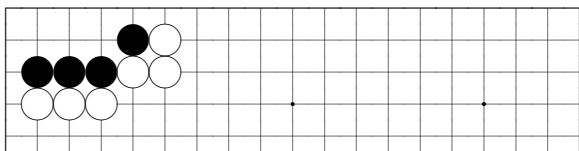
*problem 453*



*problem 454*



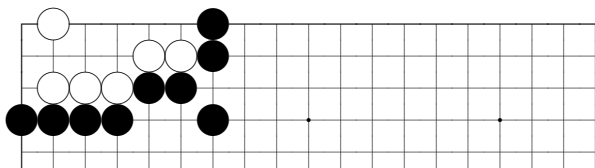
*problem 455*



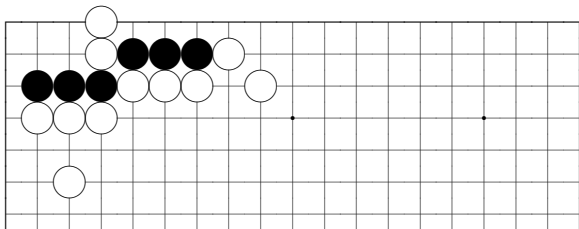
*problem 456*



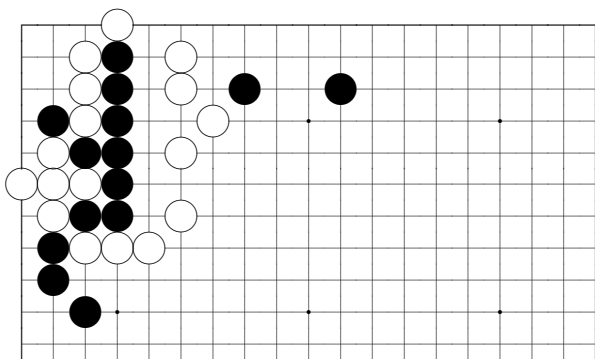
*problem 457*



*problem 458*

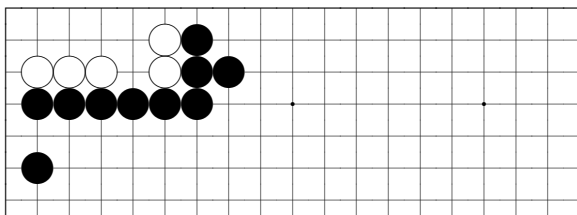


*problem 459*

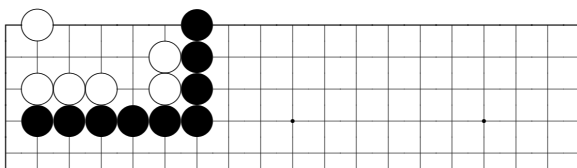


*problem 460*

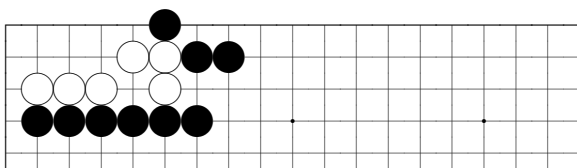




*problem 463*

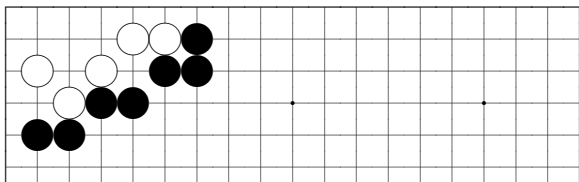


*problem 464*

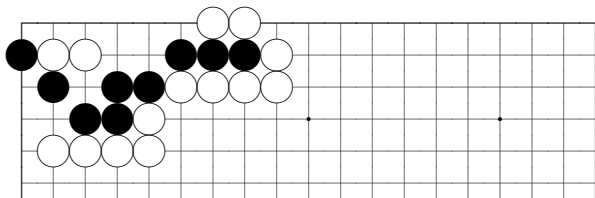


*problem 465*

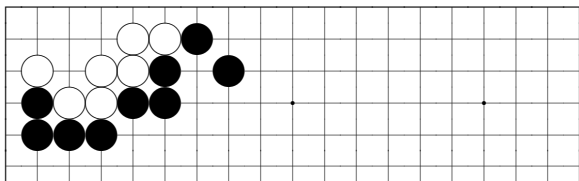




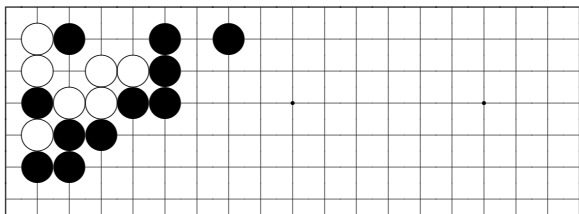
*problem 466*



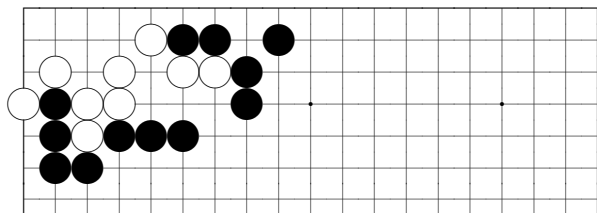
*problem 467*



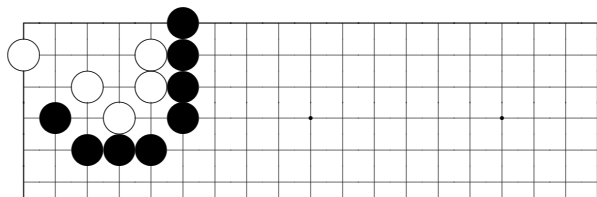
*problem 468*



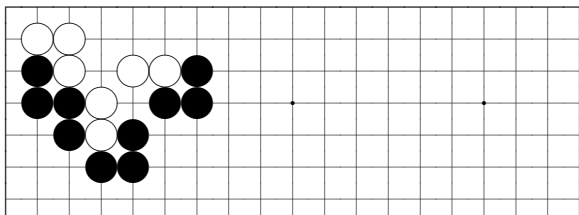
*problem 469*



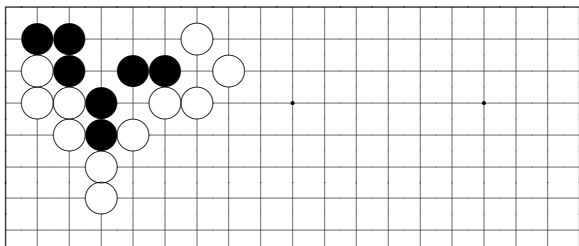
*problem 470*



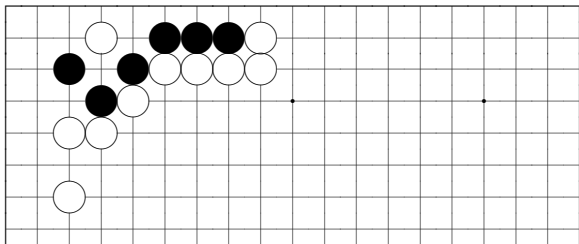
*problem 471*



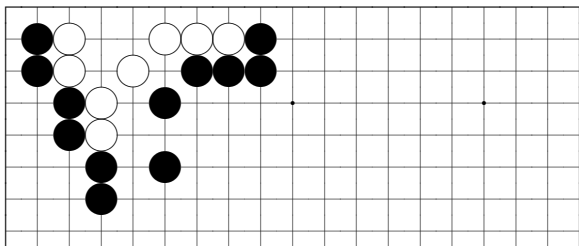
*problem 472*



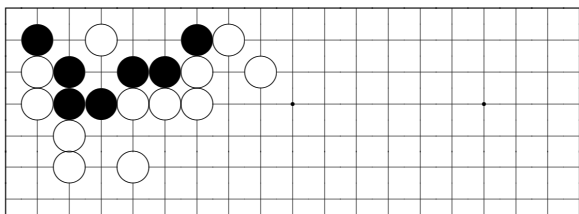
*problem 473*



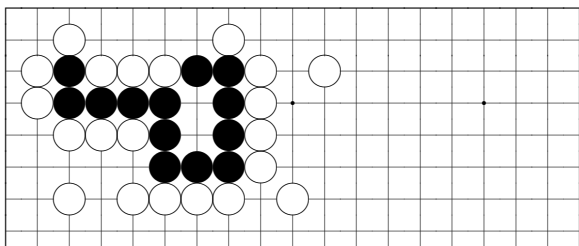
*problem 474*



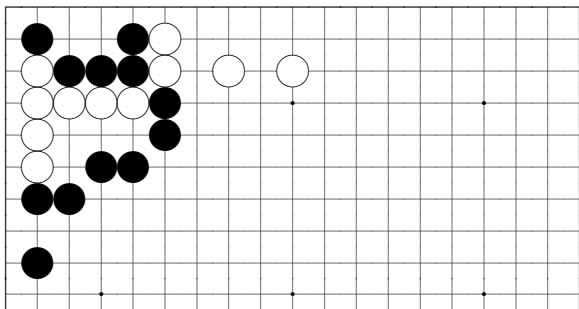
*problem 475*



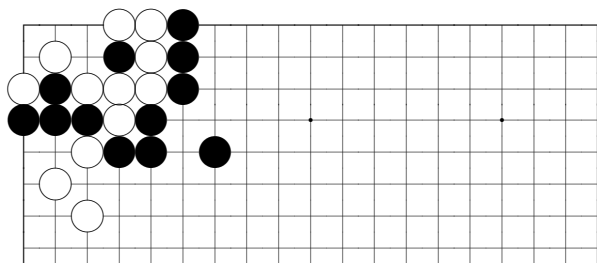
*problem 476*



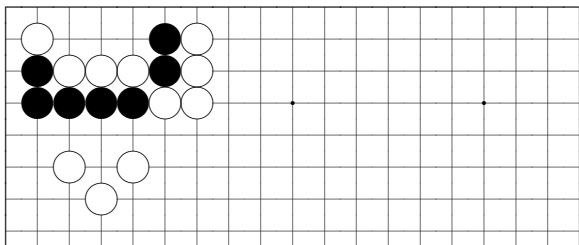
*problem 477*



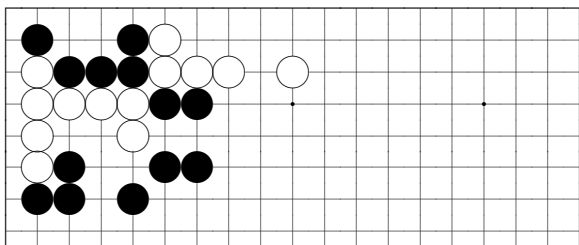
*problem 478*



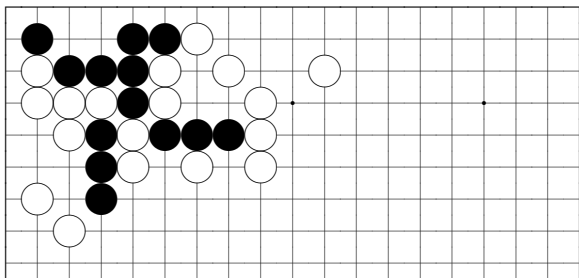
*problem 479*



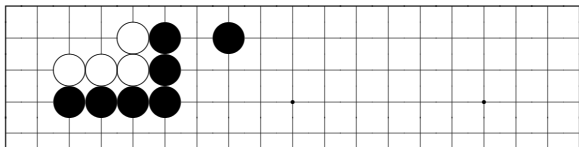
*problem 480*



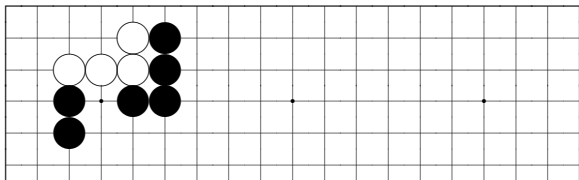
*problem 481*



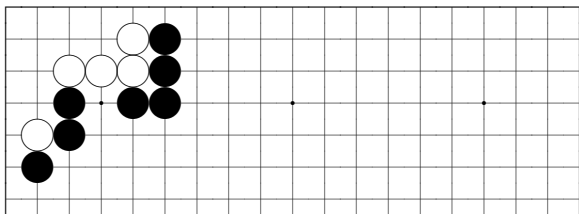
*problem 482*



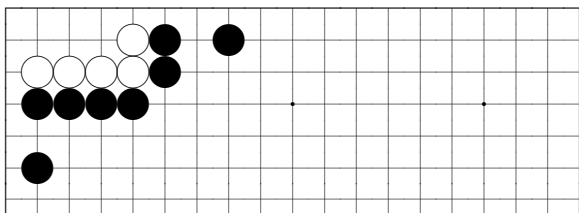
*problem 483*



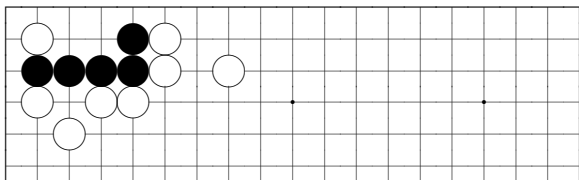
*problem 484*



*problem 485*

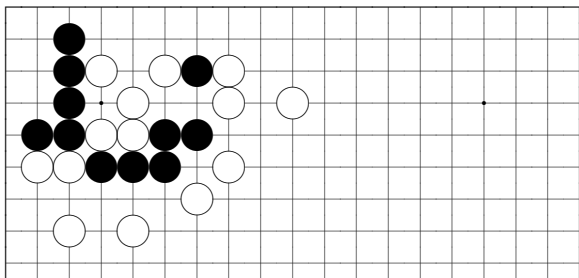


*problem 486*

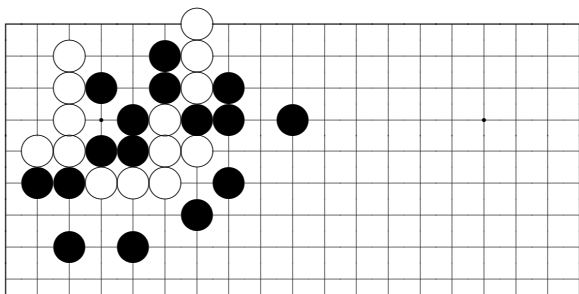


*problem 487*

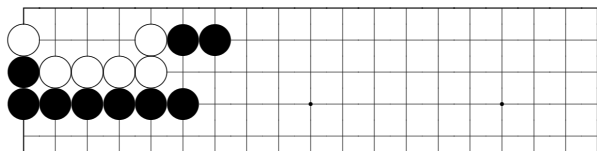




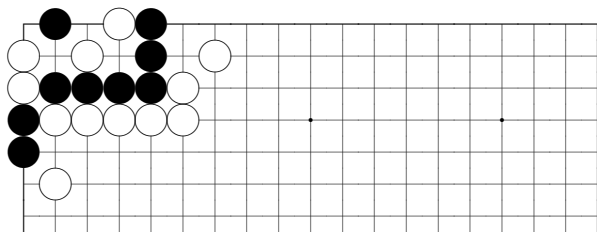
*problem 488*



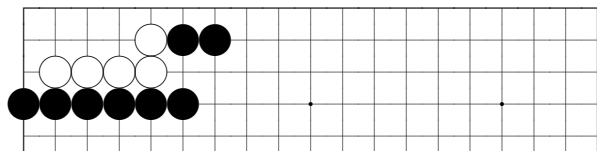
*problem 489*



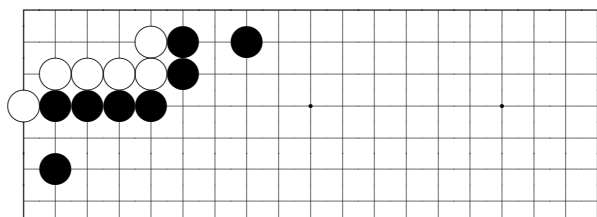
*problem 490*



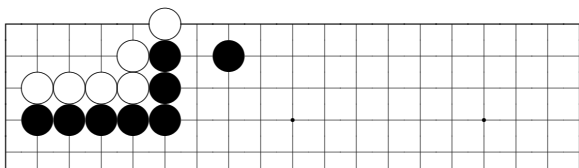
*problem 491*



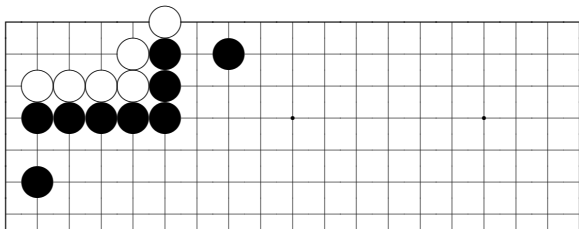
*problem 492*



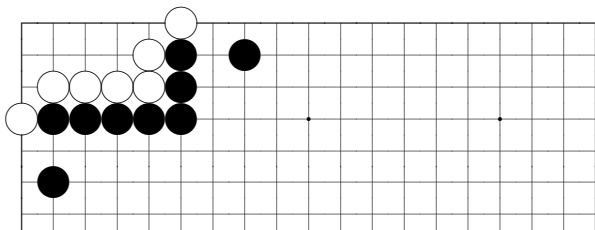
*problem 493*



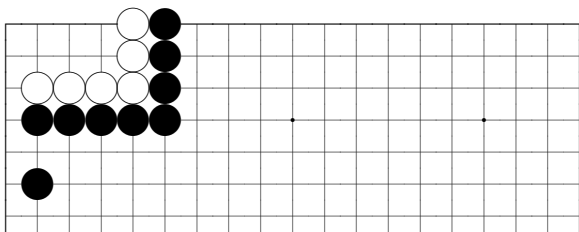
*problem 494*



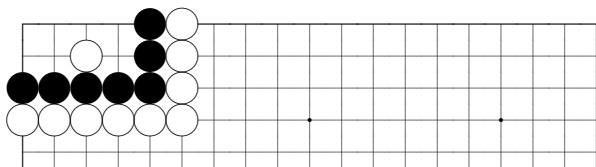
*problem 495*



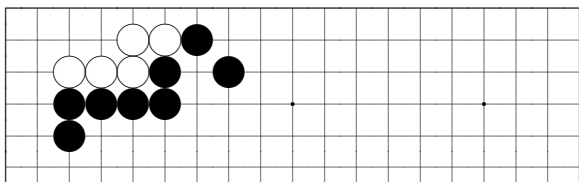
*problem 496*



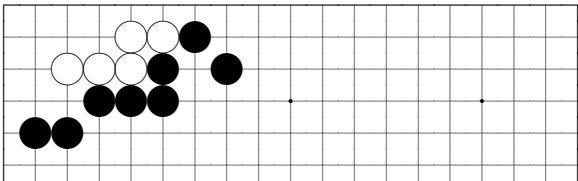
*problem 497*



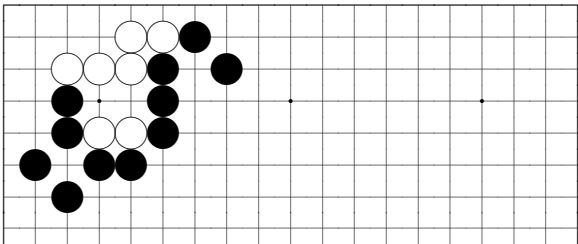
*problem 498*



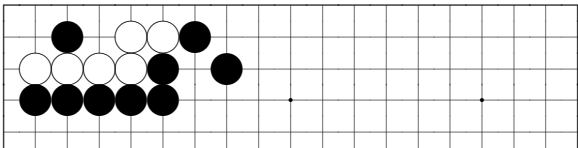
*problem 499*



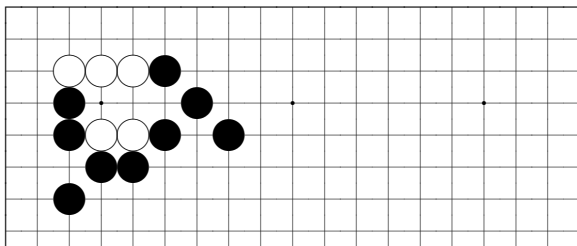
*problem 500*



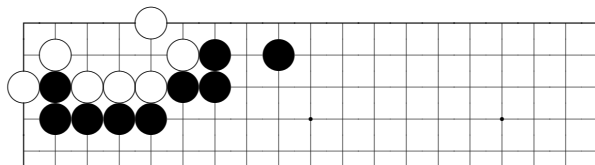
*problem 501*



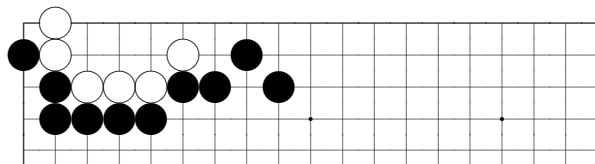
*problem 502*



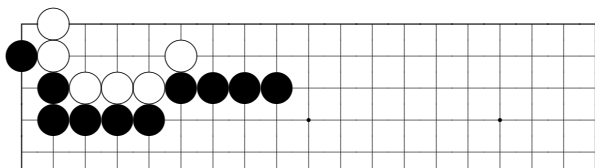
*problem 503*



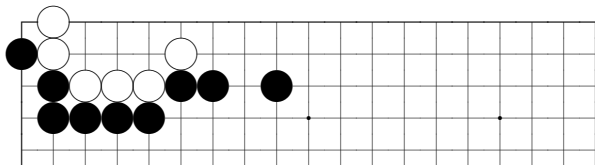
*problem 504*



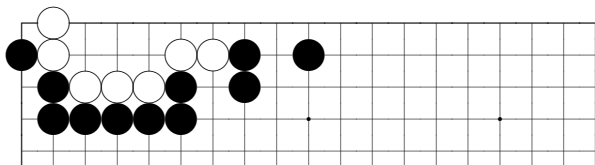
*problem 505*



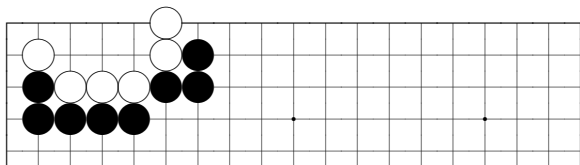
*problem 506*



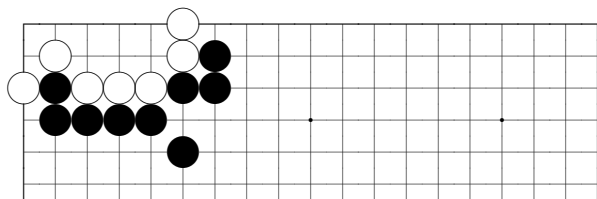
*problem 507*



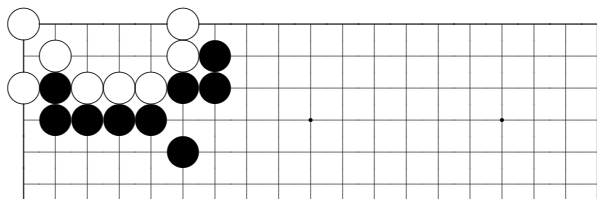
*problem 508*



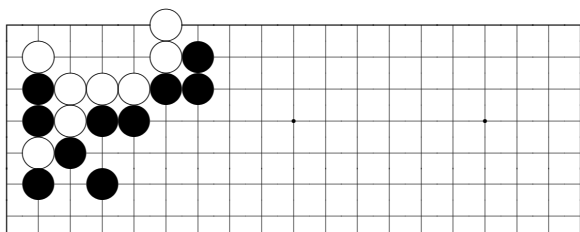
*problem 509*



*problem 510*

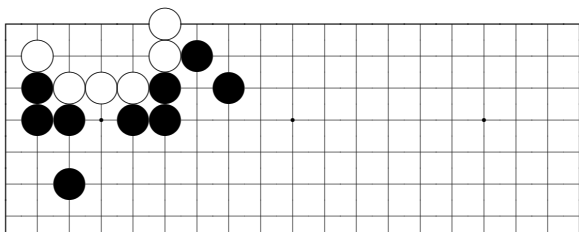


*problem 511*

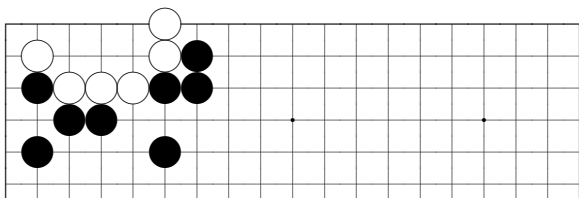


*problem 512*

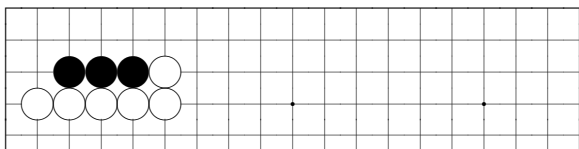




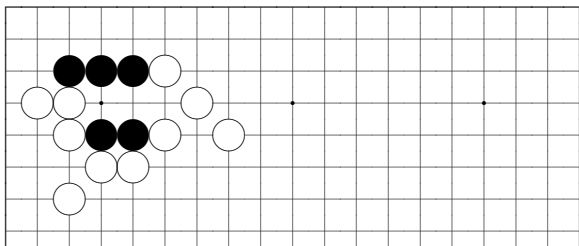
*problem 513*



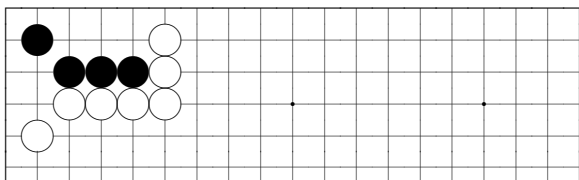
*problem 514*



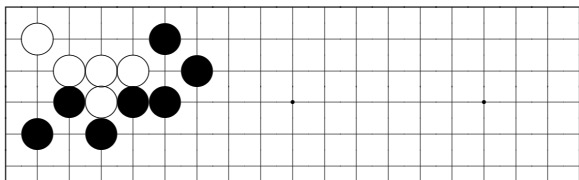
*problem 515*



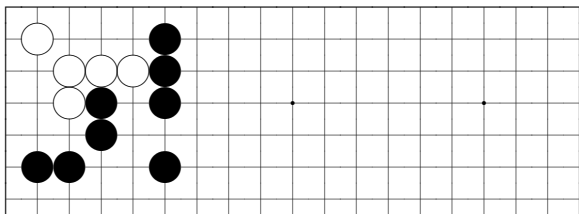
*problem 516*



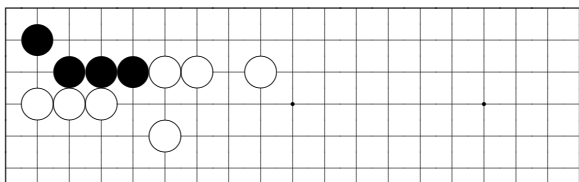
*problem 517*



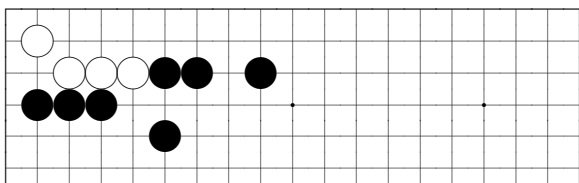
*problem 518*



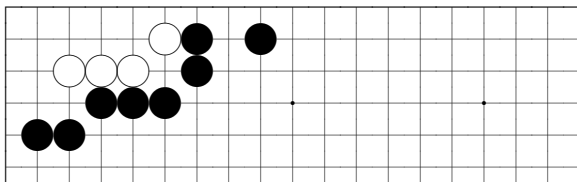
*problem 519*



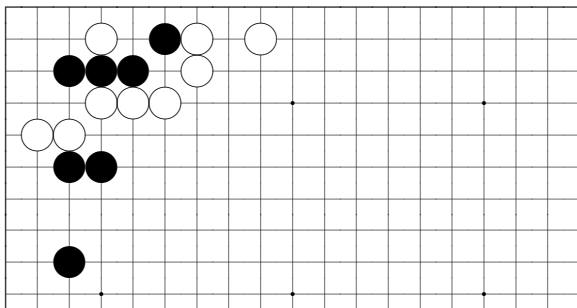
*problem 520*



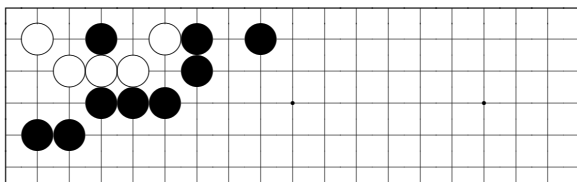
*problem 521*



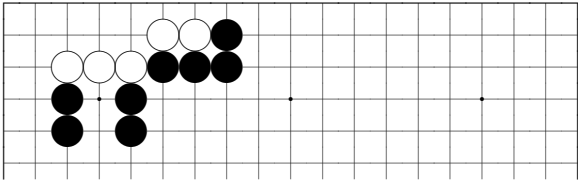
*problem 522*



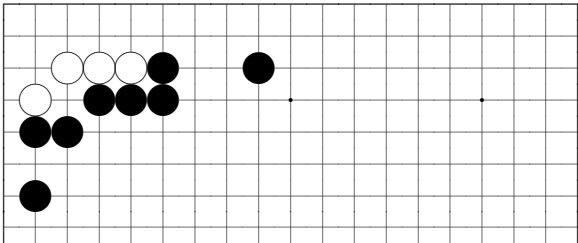
*problem 523*



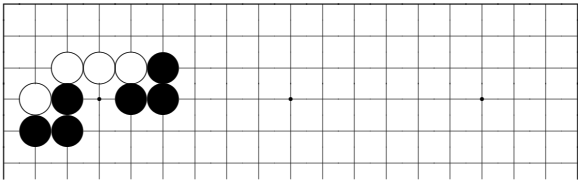
*problem 524*



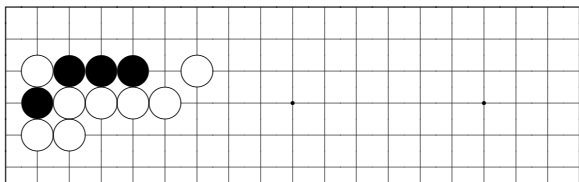
*problem 525*



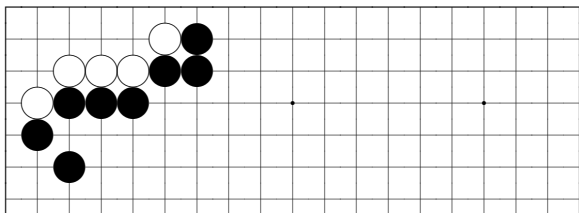
*problem 526*



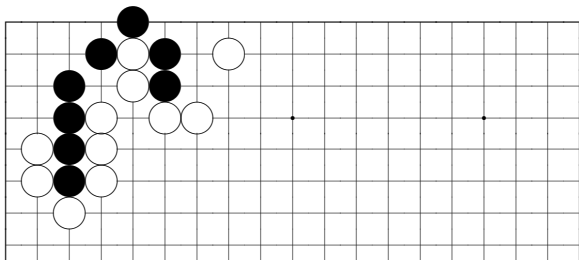
*problem 527*



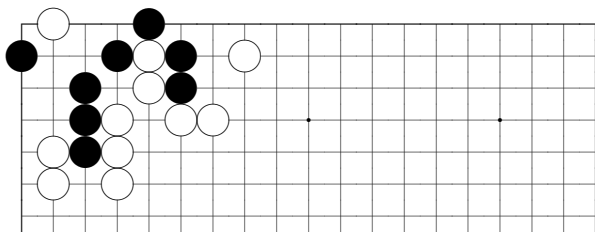
*problem 528*



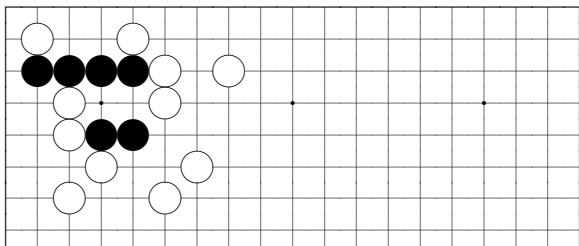
*problem 529*



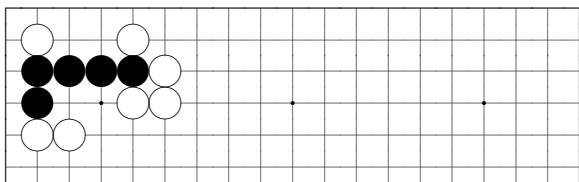
*problem 530*



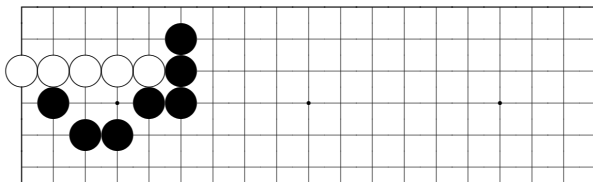
*problem 531*



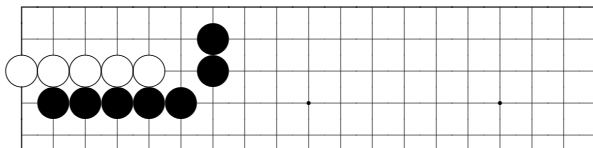
*problem 532*



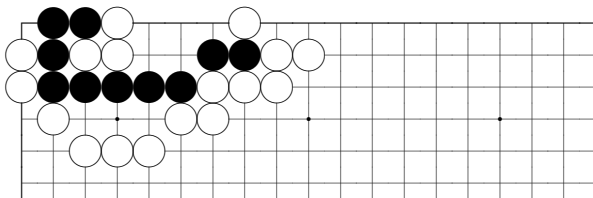
*problem 533*



*problem 534*

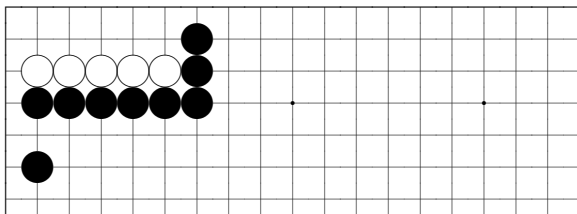


*problem 535*

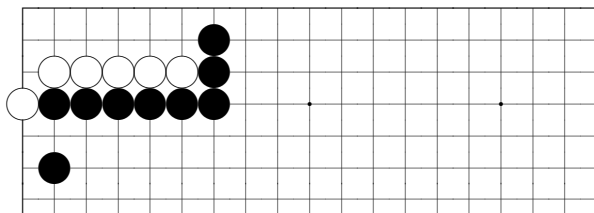


*problem 536*

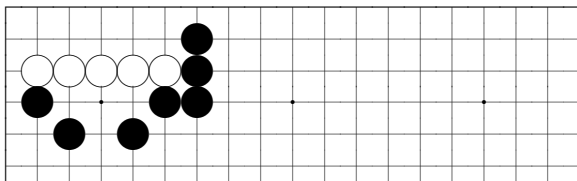




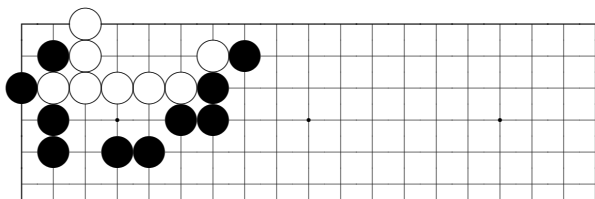
*problem 537*



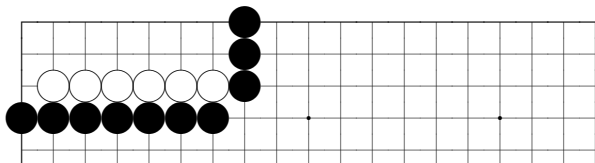
*problem 538*



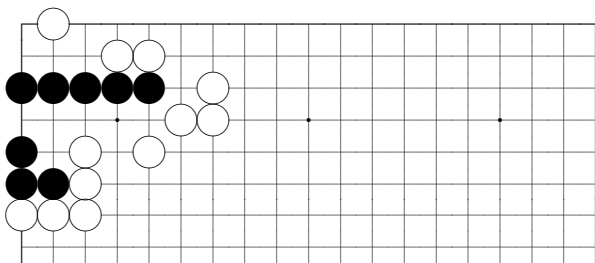
*problem 539*



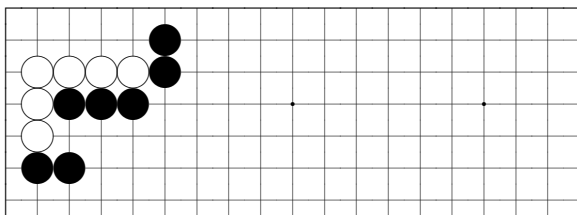
*problem 540*



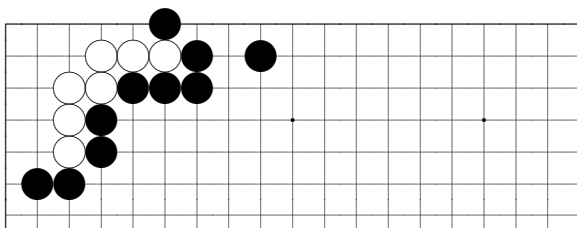
*problem 541*



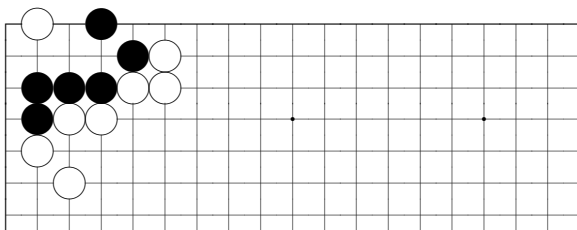
*problem 542*



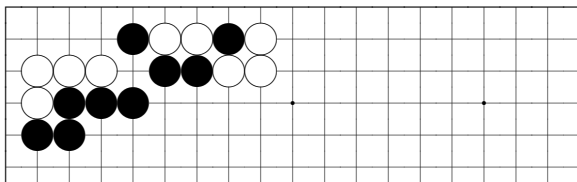
*problem 543*



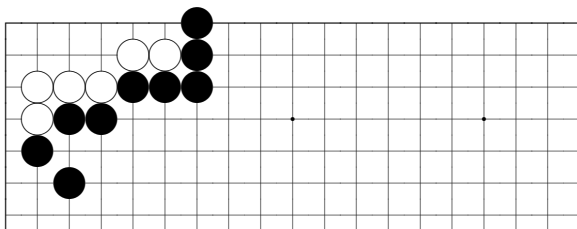
*problem 544*



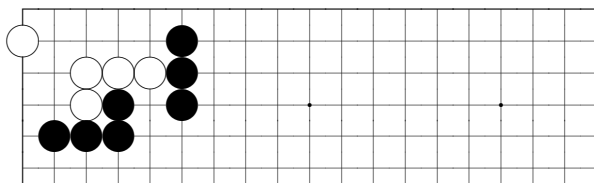
*problem 545*



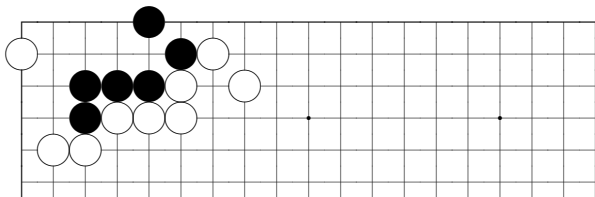
*problem 546*



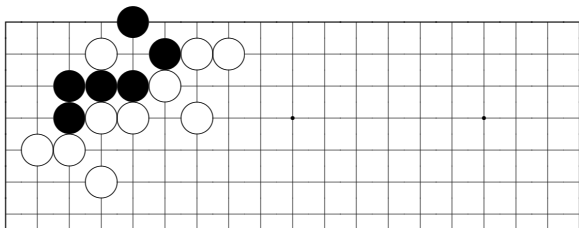
*problem 547*



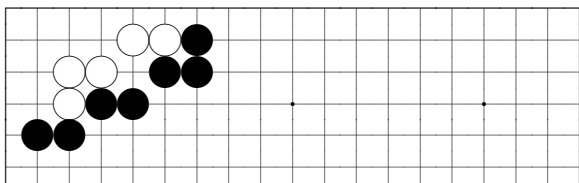
*problem 548*



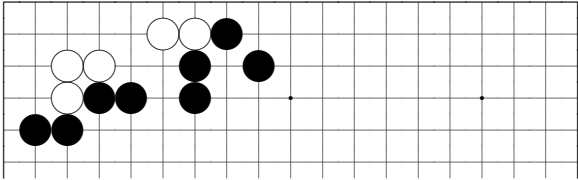
*problem 549*



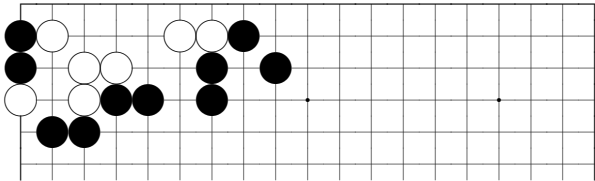
*problem 550*



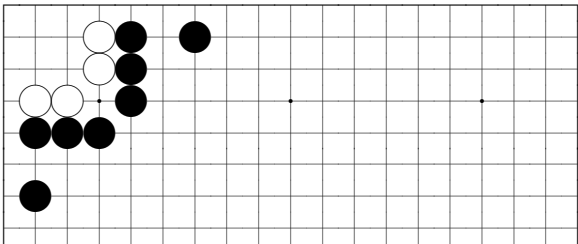
*problem 551*



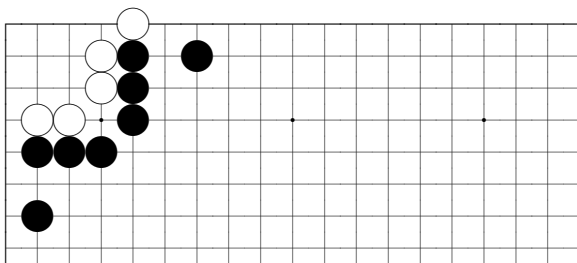
*problem 552*



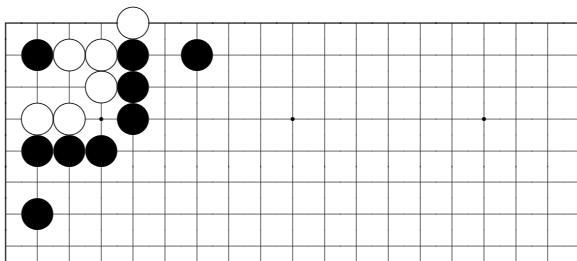
*problem 553*



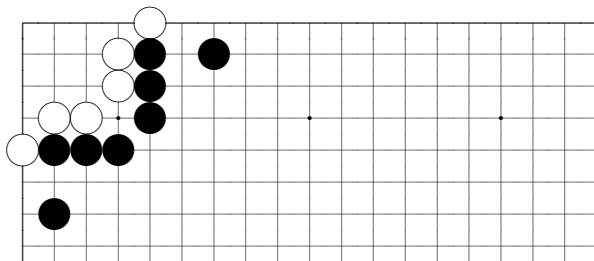
*problem 554*



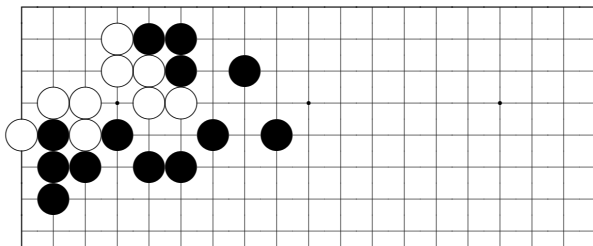
*problem 555*



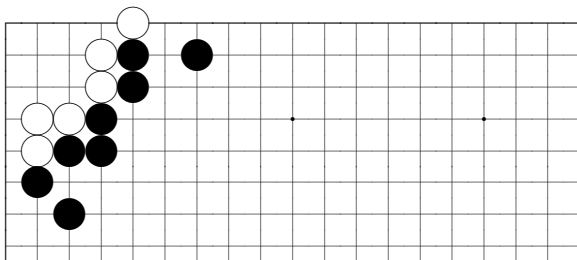
*problem 556*



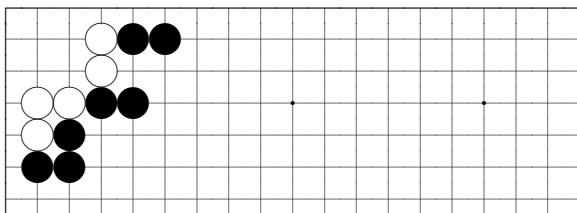
*problem 557*



*problem 558*

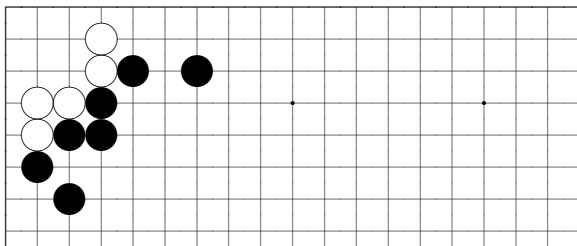


*problem 559*

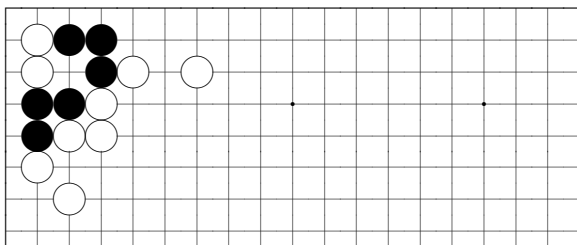


*problem 560*

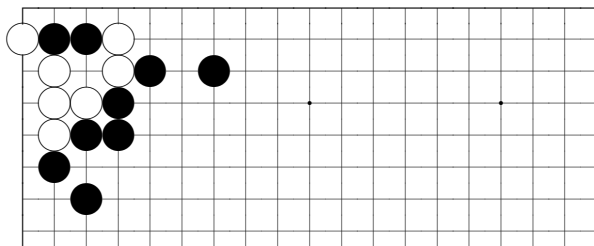




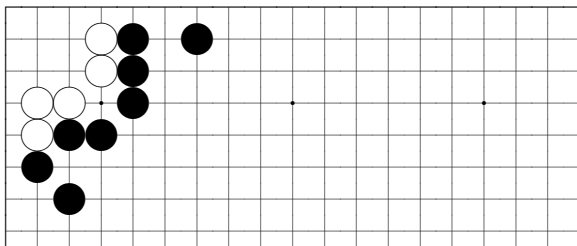
*problem 561*



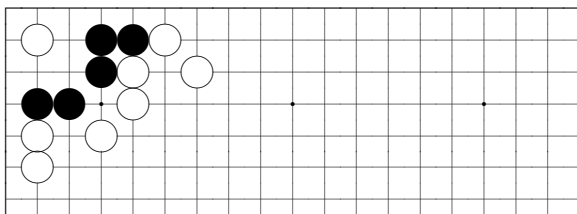
*problem 562*



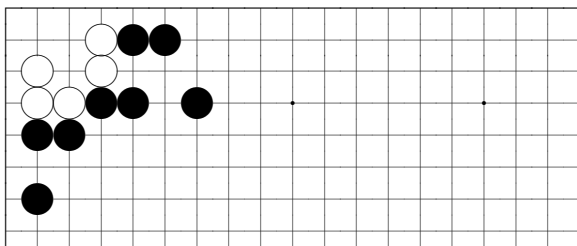
*problem 563*



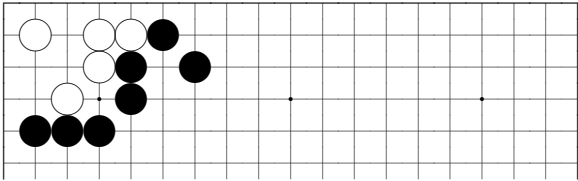
*problem 564*



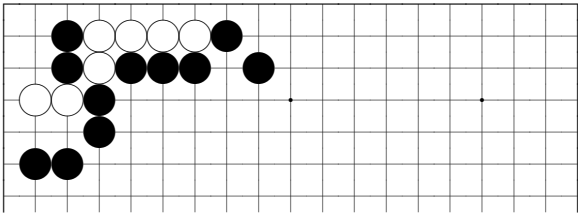
*problem 565*



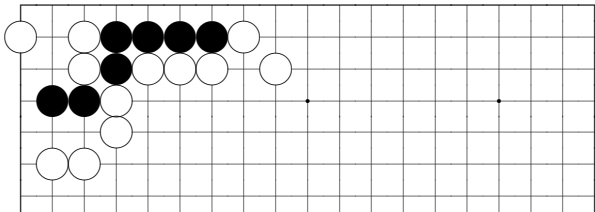
*problem 566*



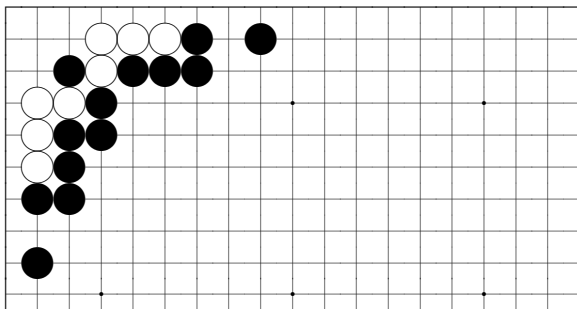
*problem 567*



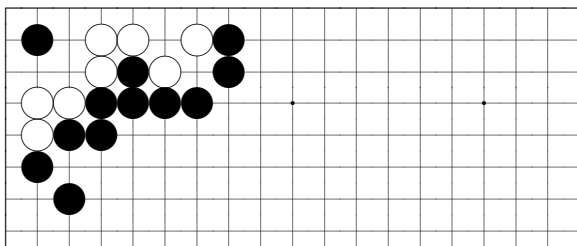
*problem 568*



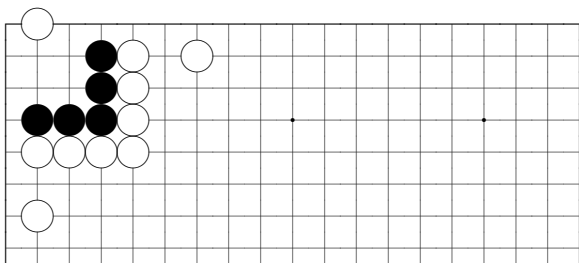
*problem 569*



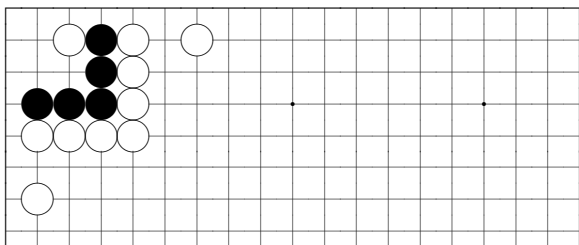
*problem 570*



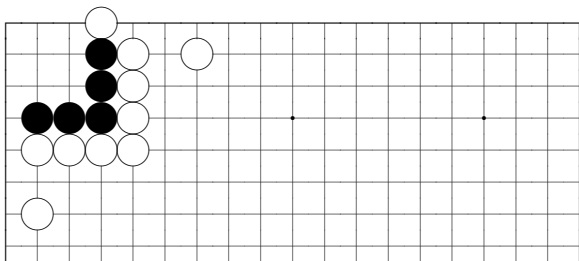
*problem 571*



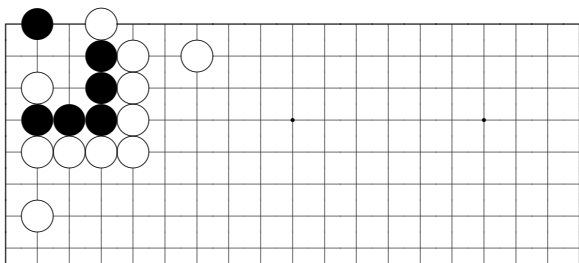
*problem 572*



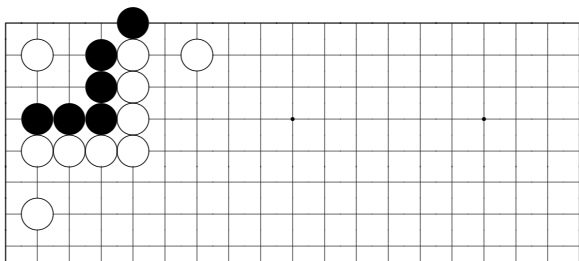
*problem 573*



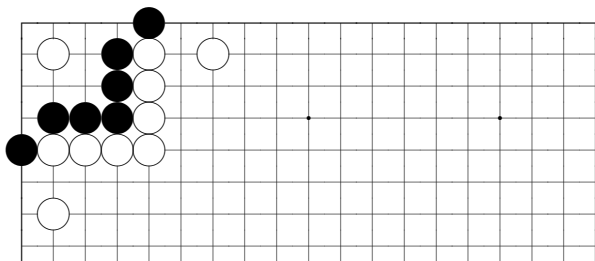
*problem 574*



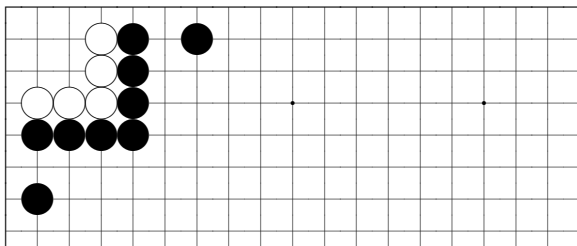
*problem 575*



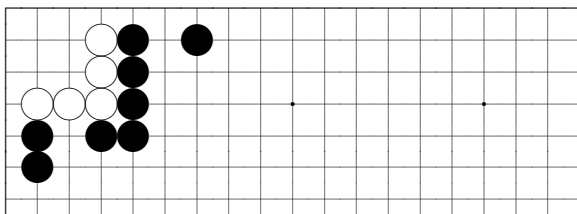
*problem 576*



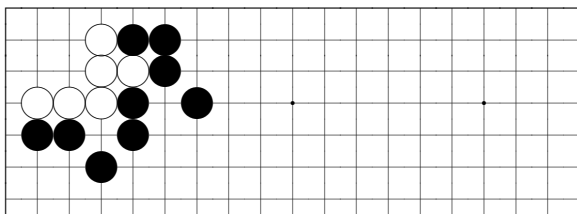
*problem 577*



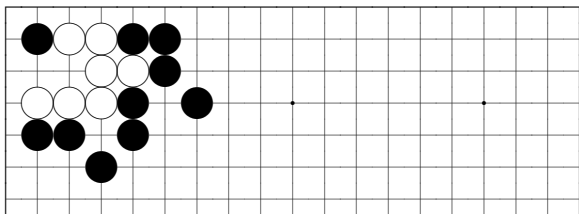
*problem 578*



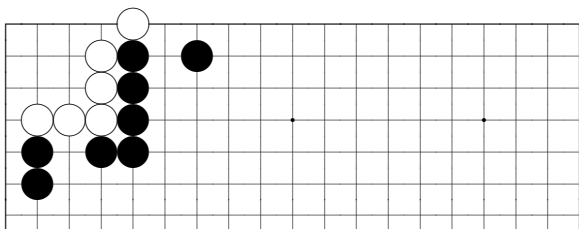
*problem 579*



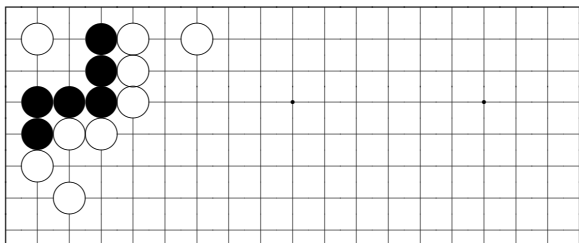
*problem 580*



*problem 581*

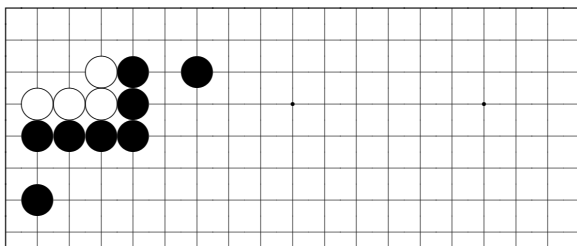


*problem 582*

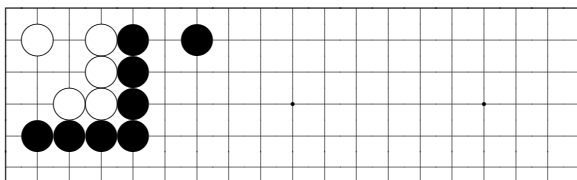


*problem 583*

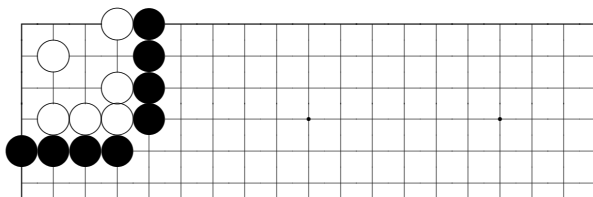




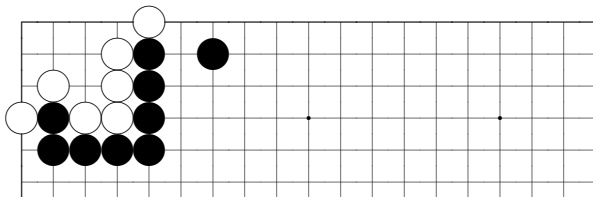
*problem 584*



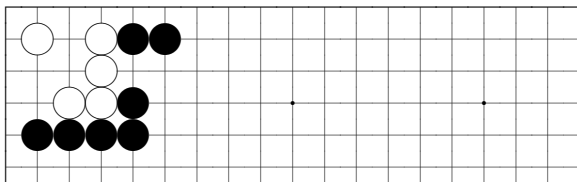
*problem 585*



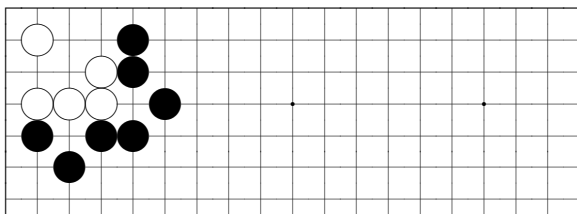
*problem 586*



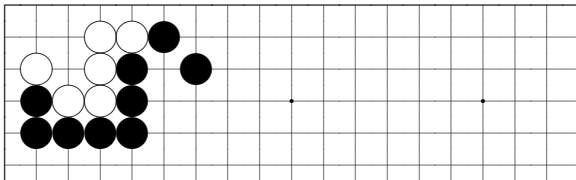
*problem 587*



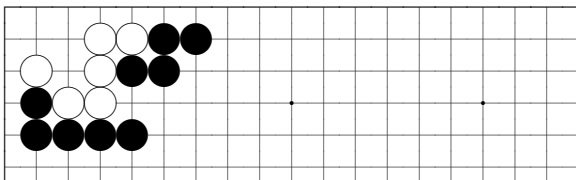
*problem 588*



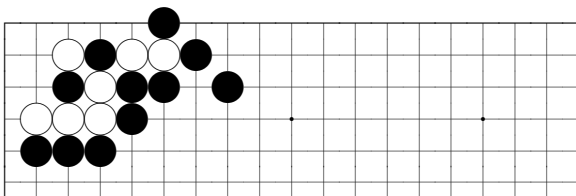
*problem 589*



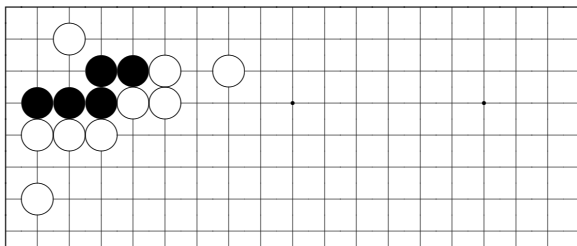
*problem 590*



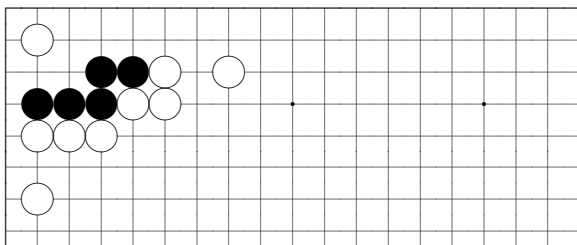
*problem 591*



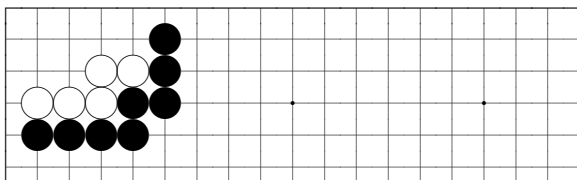
*problem 592*



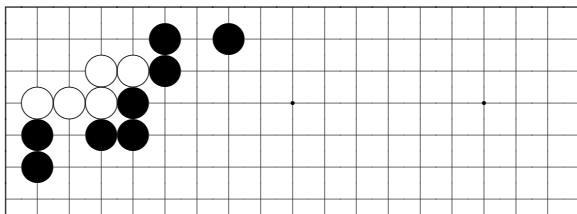
*problem 593*



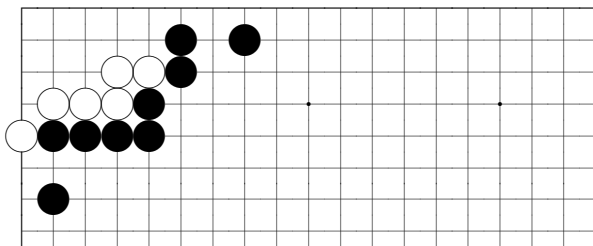
*problem 594*



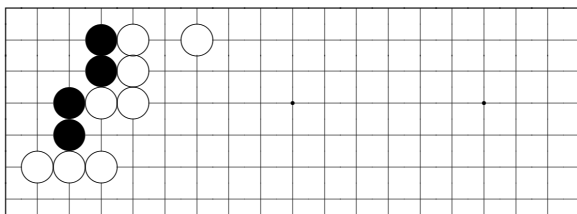
*problem 595*



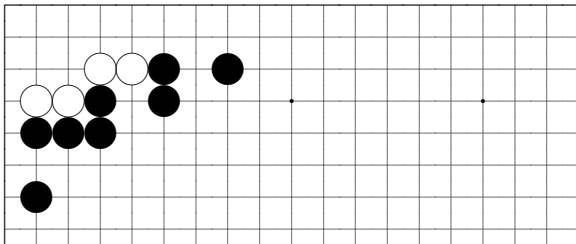
*problem 596*



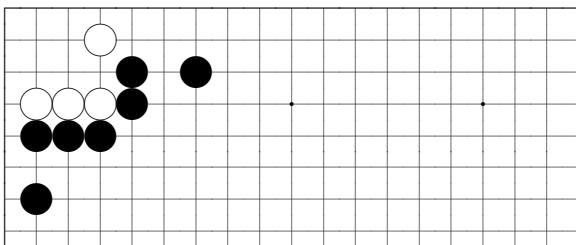
*problem 597*



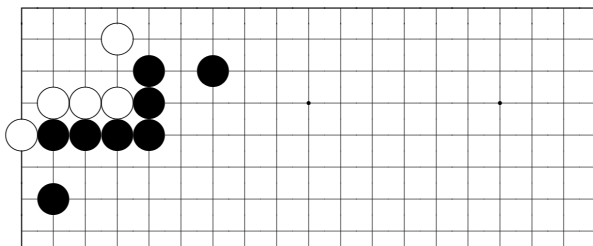
*problem 598*



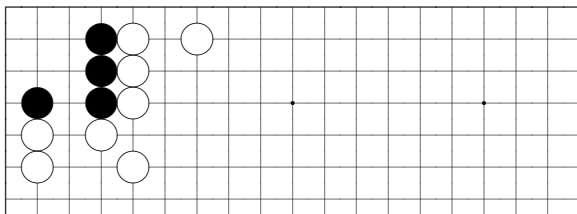
*problem 599*



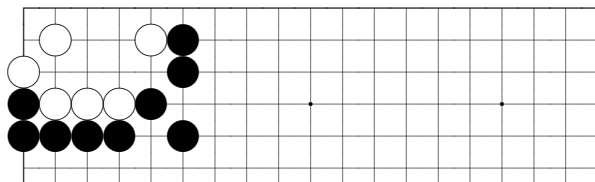
*problem 600*



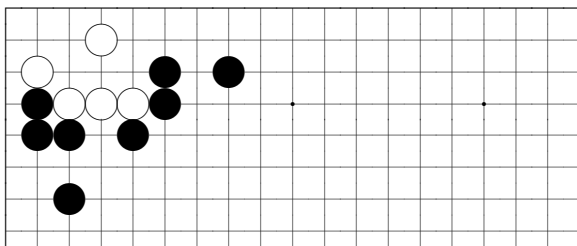
*problem 601*



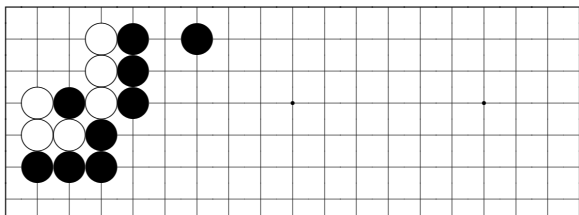
*problem 602*



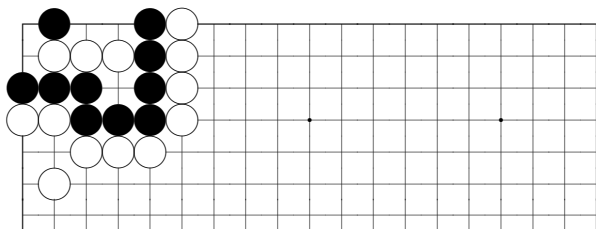
*problem 603*



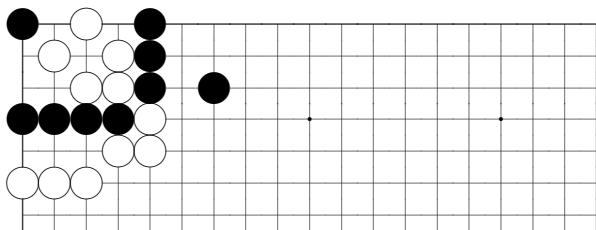
*problem 604*



*problem 605*

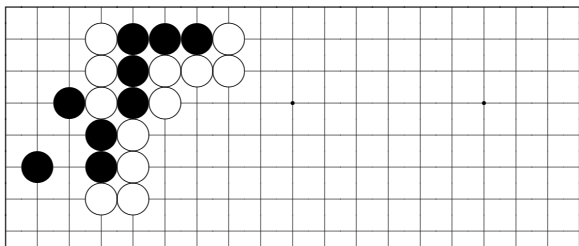


*problem 606*

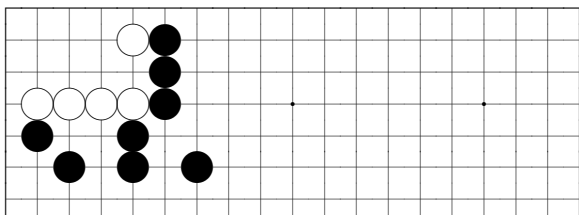


*problem 607*

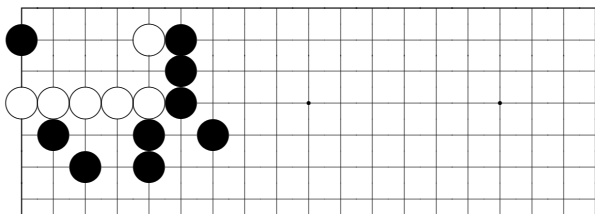




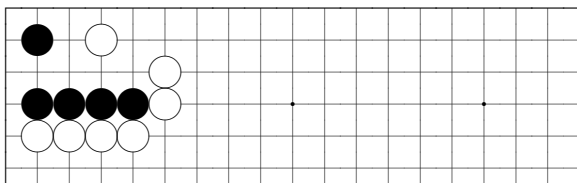
*problem 608*



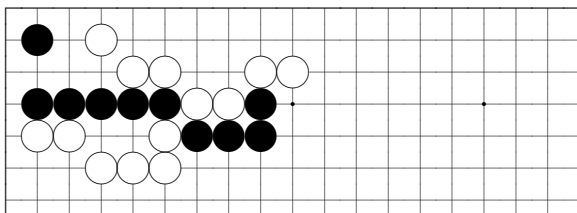
*problem 609*



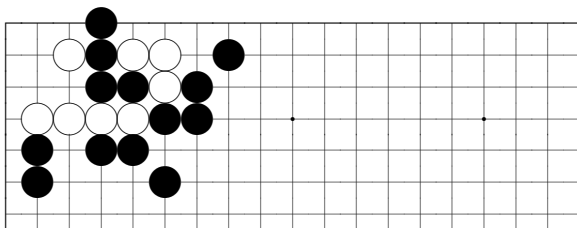
*problem 610*



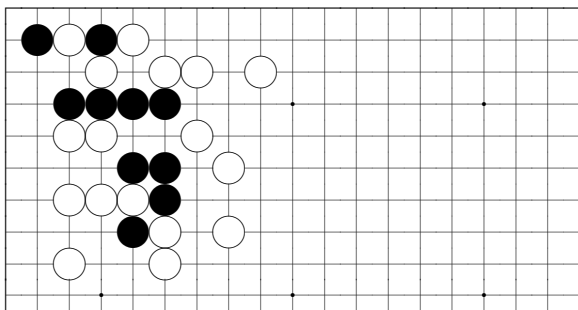
*problem 611*



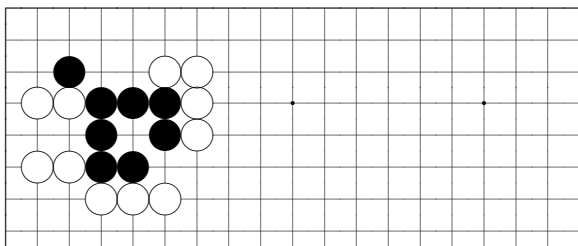
*problem 612*



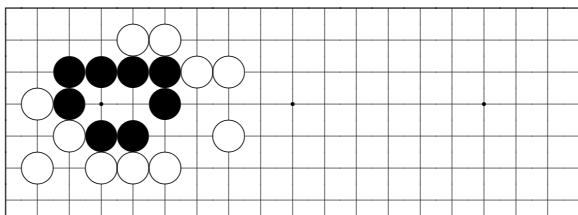
*problem 613*



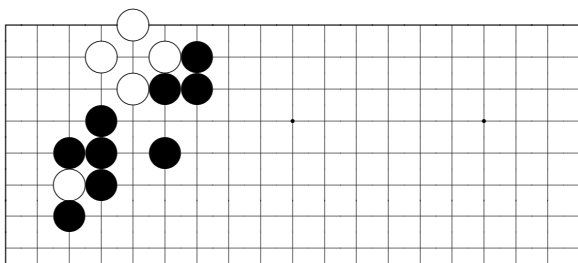
*problem 614*



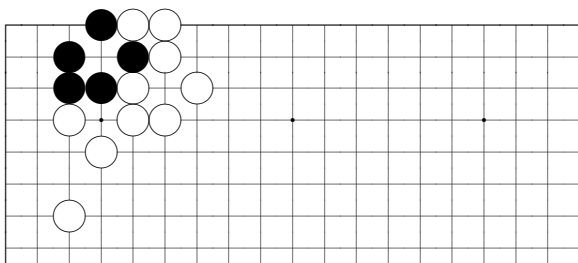
*problem 615*



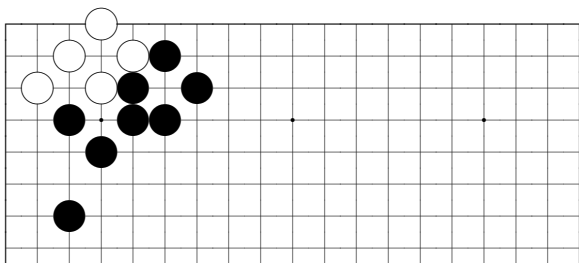
*problem 616*



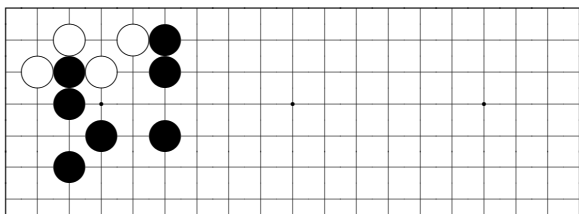
*problem 617*



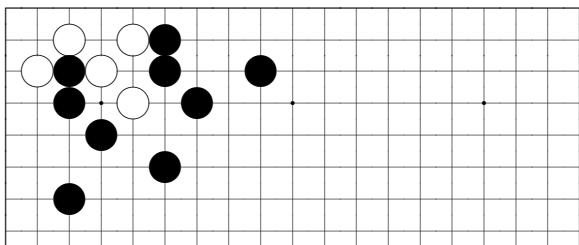
*problem 618*



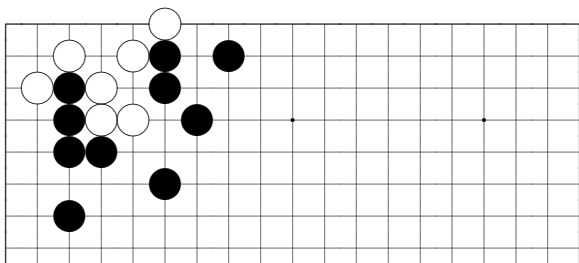
*problem 619*



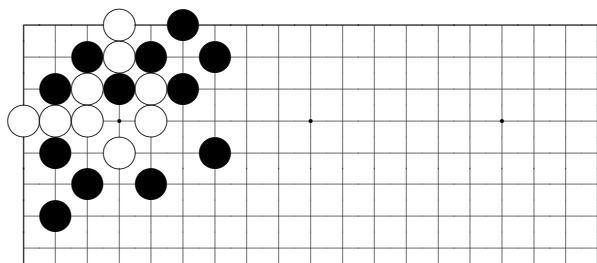
*problem 620*



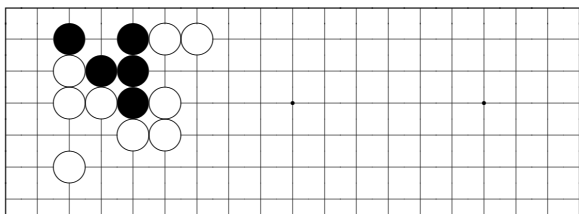
*problem 621*



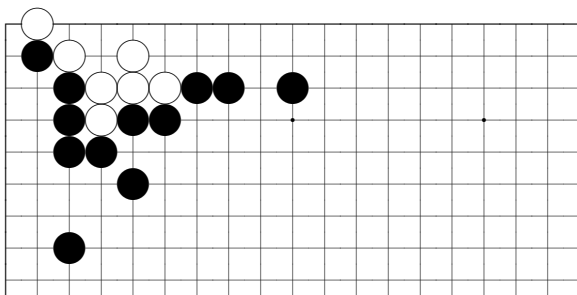
*problem 622*



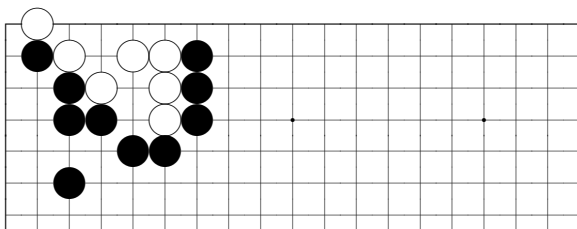
*problem 623*



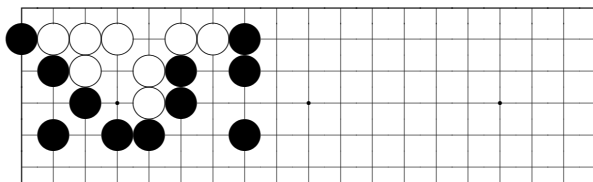
*problem 624*



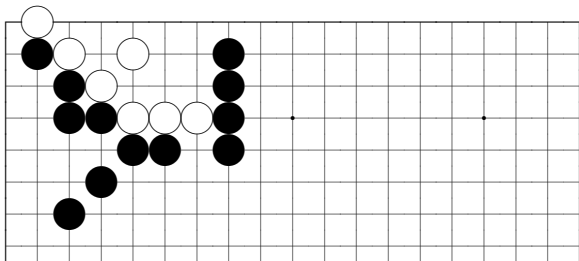
*problem 625*



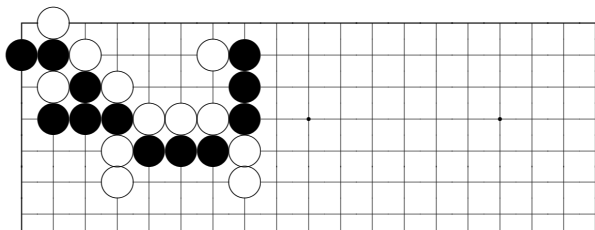
*problem 626*



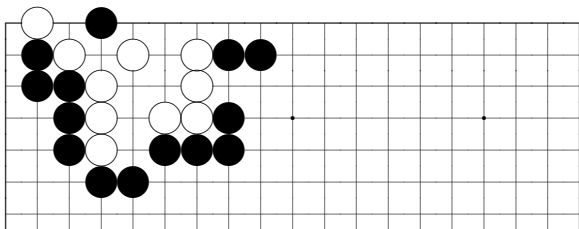
*problem 627*



*problem 628*

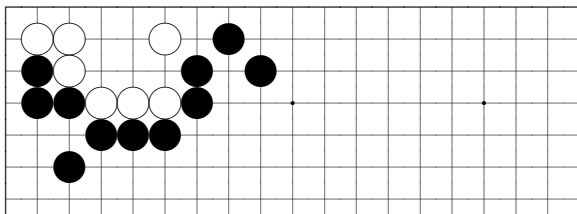


*problem 629*

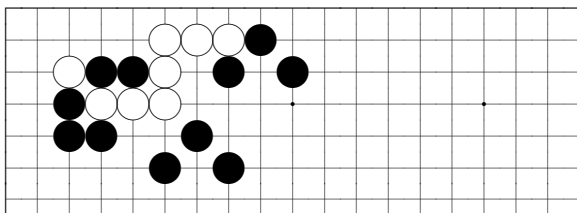


*problem 630*

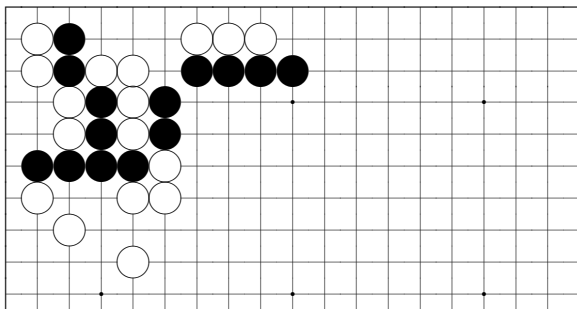




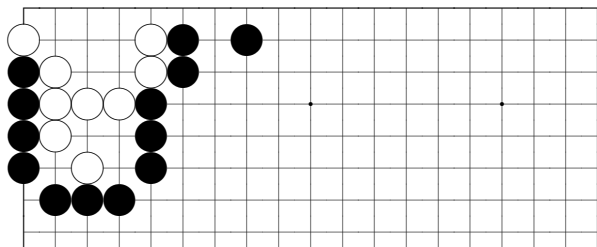
*problem 631*



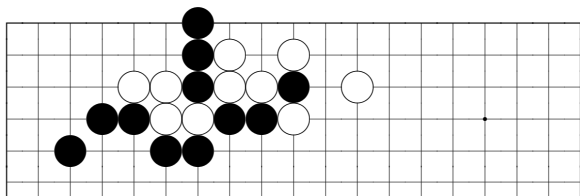
*problem 632*



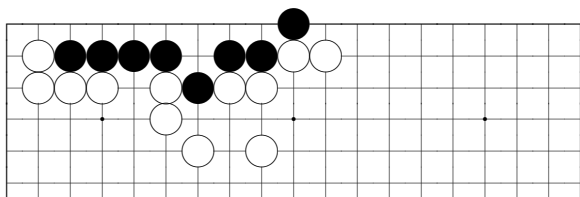
*problem 633*



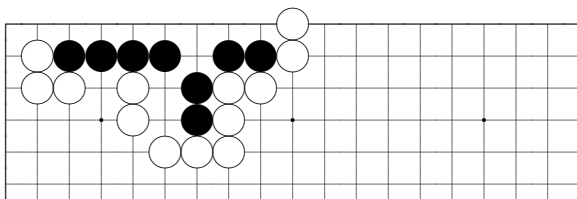
*problem 634*



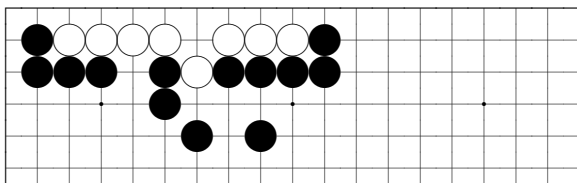
*problem 635*



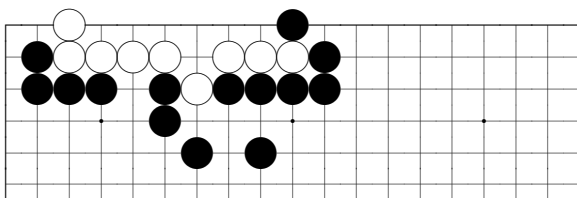
*problem 636*



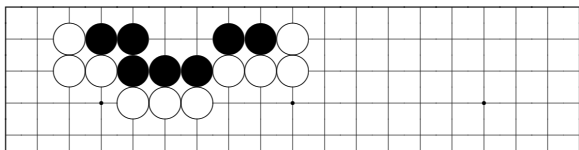
*problem 637*



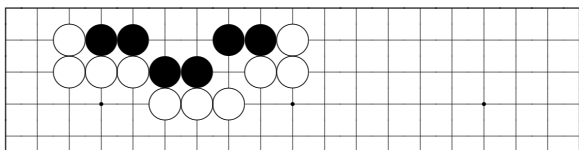
*problem 638*



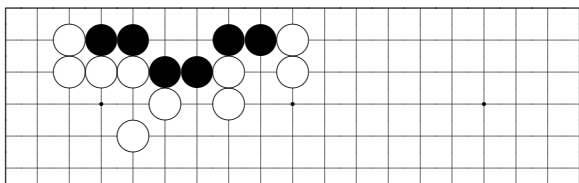
*problem 639*



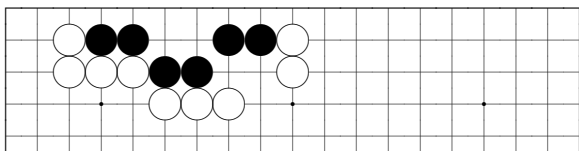
*problem 640*



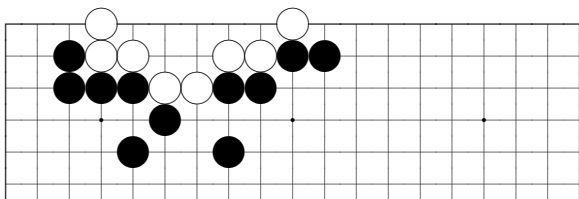
*problem 641*



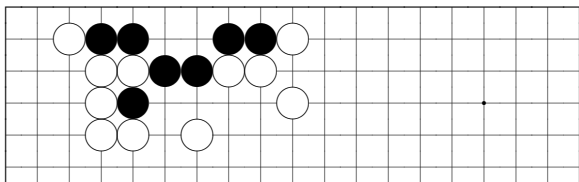
*problem 642*



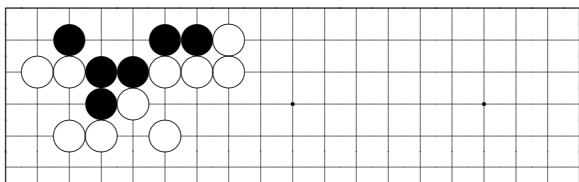
*problem 643*



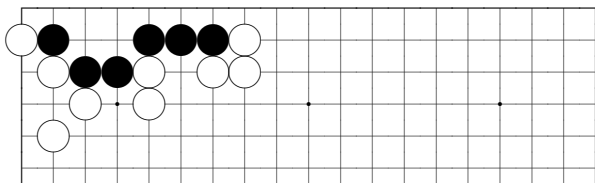
*problem 644*



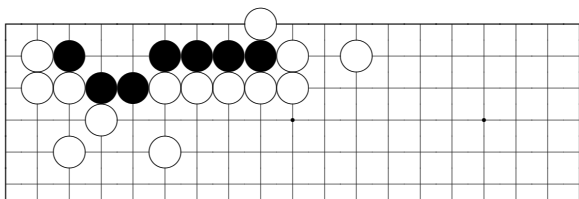
*problem 645*



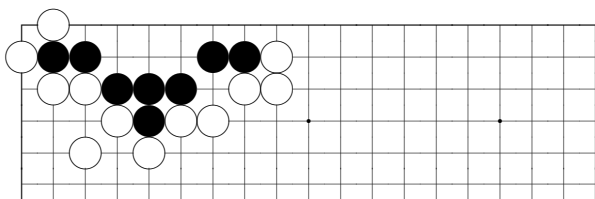
*problem 646*



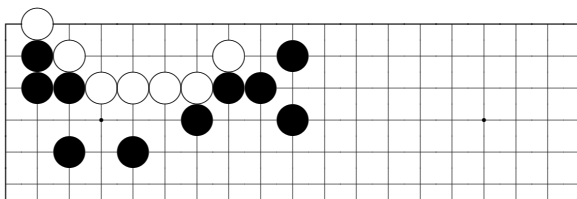
*problem 647*



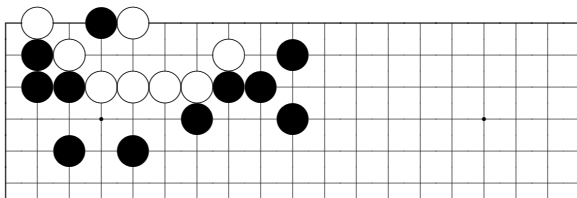
*problem 648*



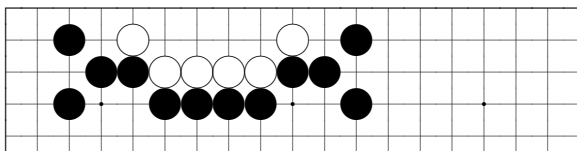
*problem 649*



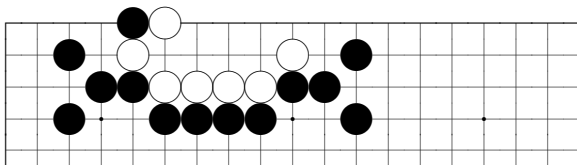
*problem 650*



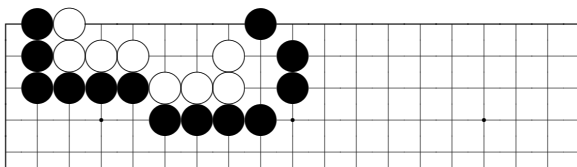
*problem 651*



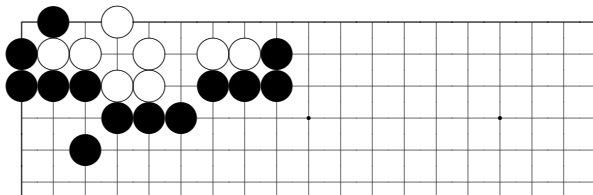
*problem 652*



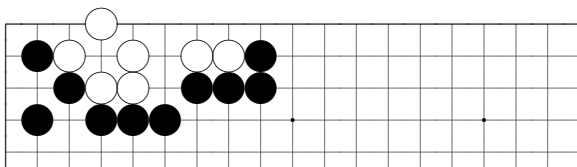
*problem 653*



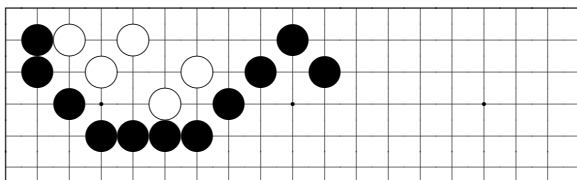
*problem 654*



*problem 655*

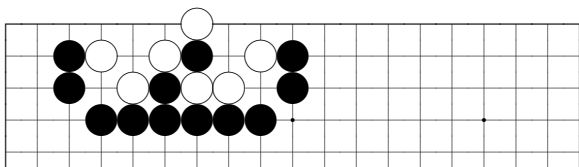


*problem 656*

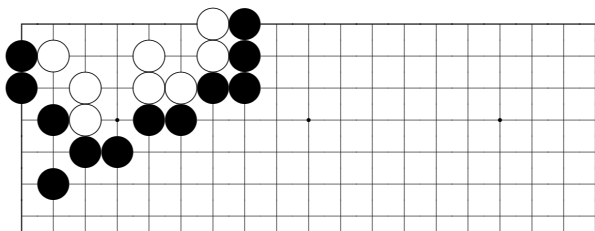


*problem 657*

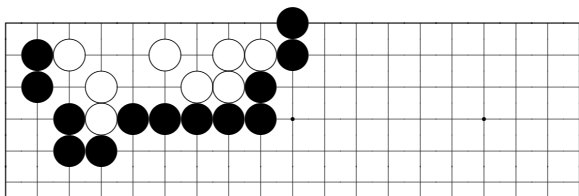




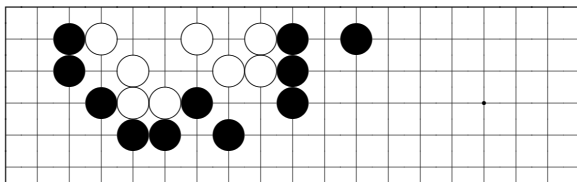
*problem 658*



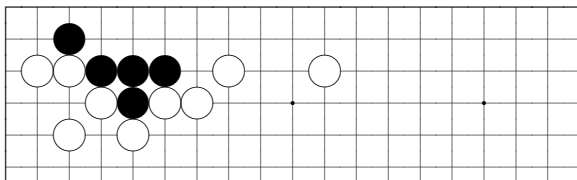
*problem 659*



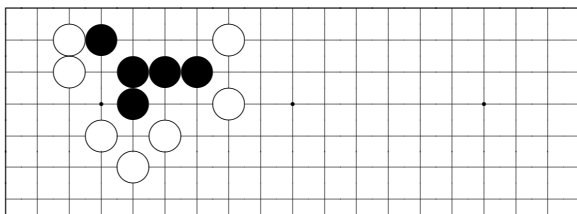
*problem 660*



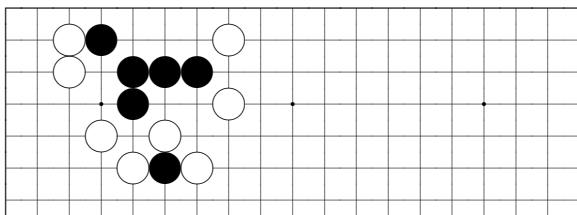
*problem 661*



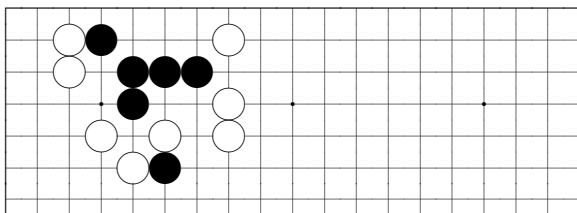
*problem 662*



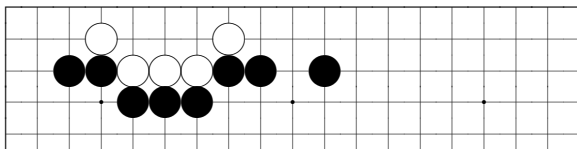
*problem 663*



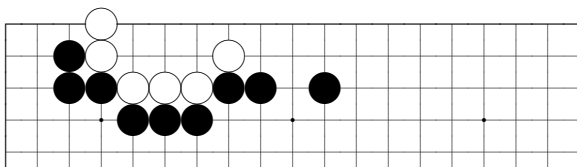
*problem 664*



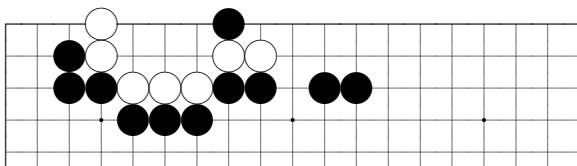
*problem 665*



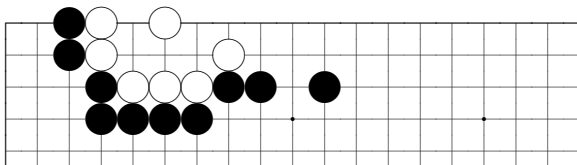
*problem 666*



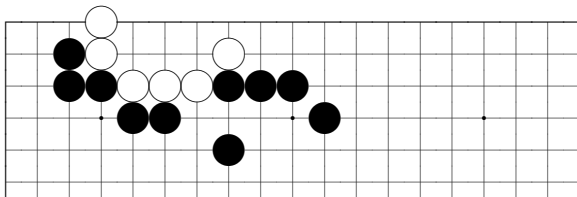
*problem 667*



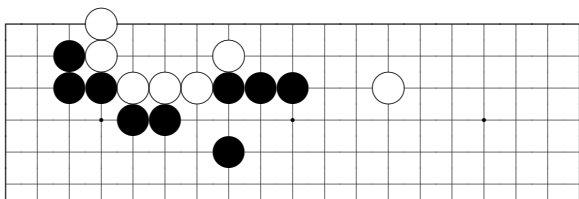
*problem 668*



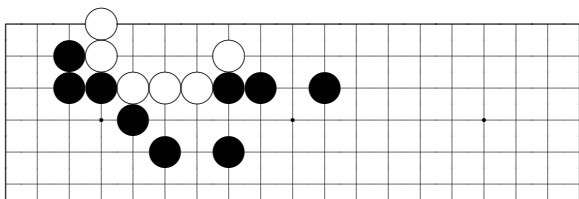
*problem 669*



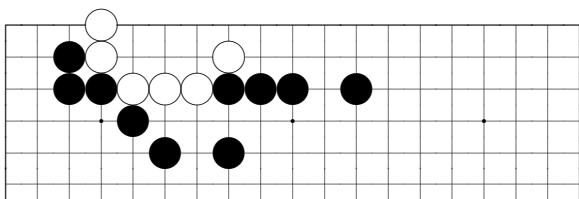
*problem 670*



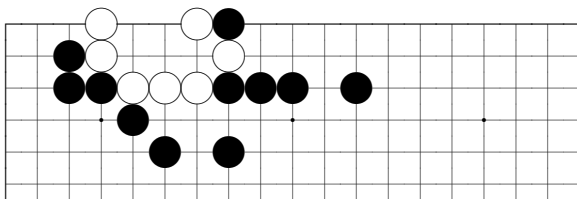
*problem 671*



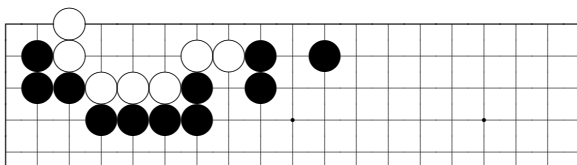
*problem 672*



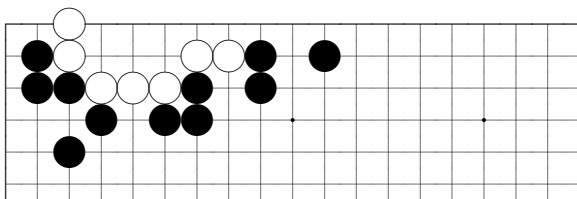
*problem 673*



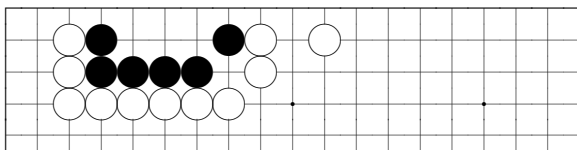
*problem 674*



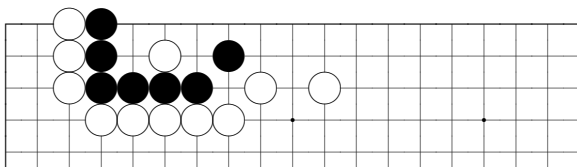
*problem 675*



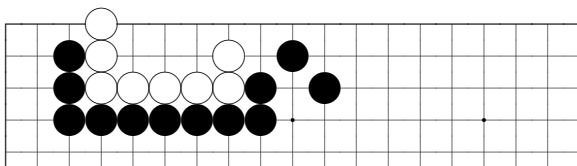
*problem 676*



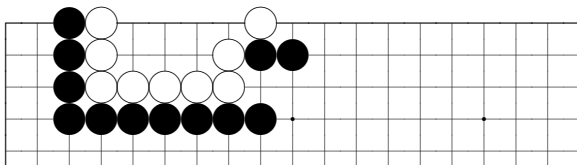
*problem 677*



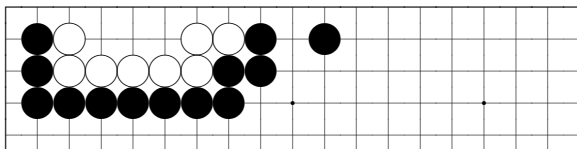
*problem 678*



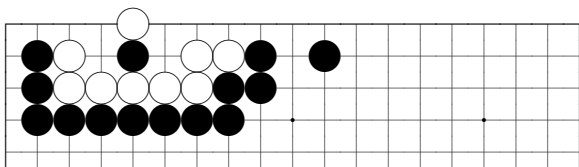
*problem 679*



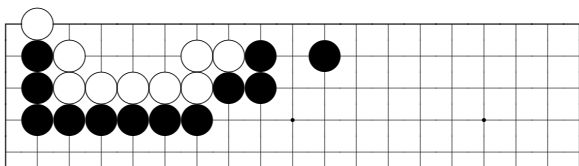
*problem 680*



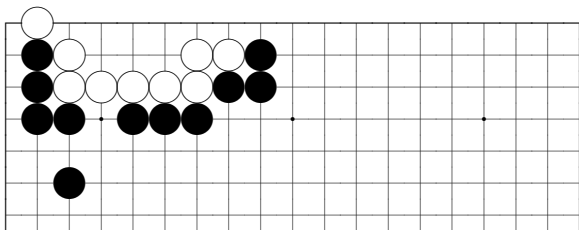
*problem 681*



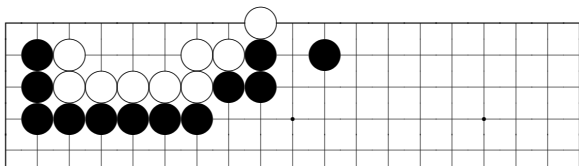
*problem 682*



*problem 683*

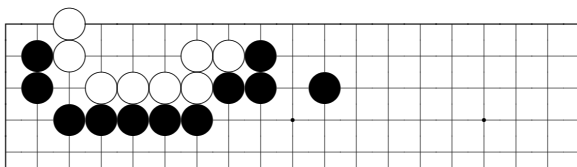


*problem 684*

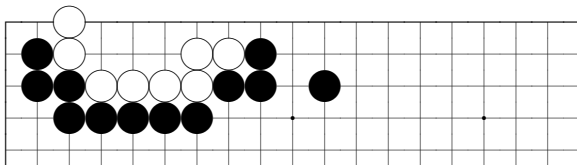


*problem 685*

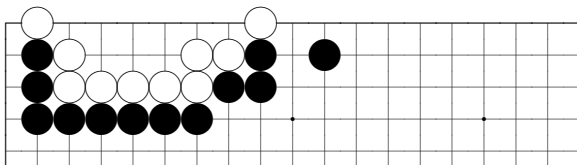




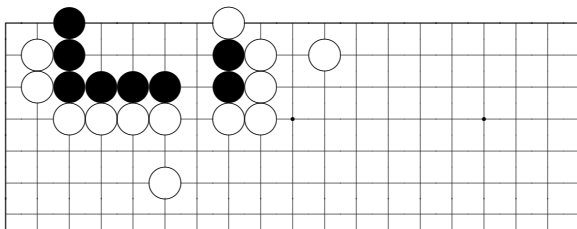
*problem 686*



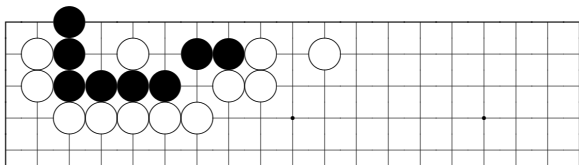
*problem 687*



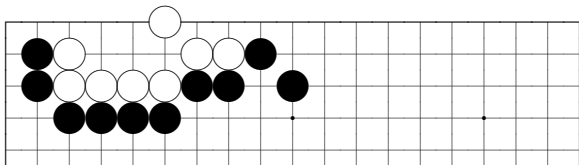
*problem 688*



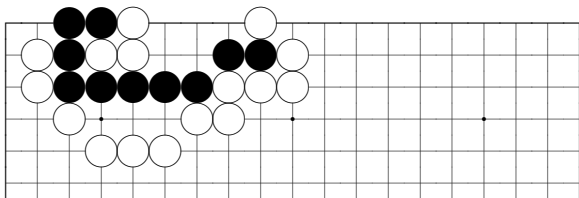
*problem 689*



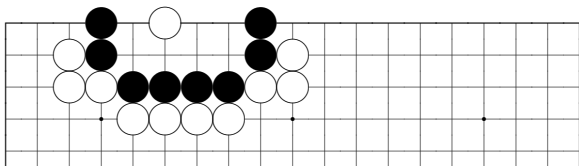
*problem 690*



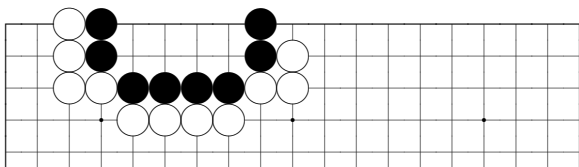
*problem 691*



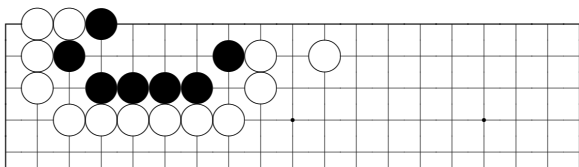
*problem 692*



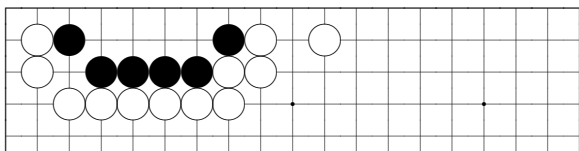
*problem 693*



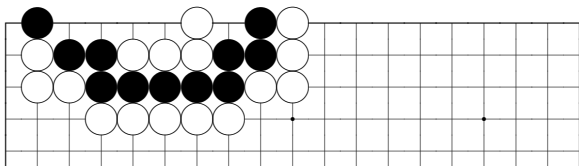
*problem 694*



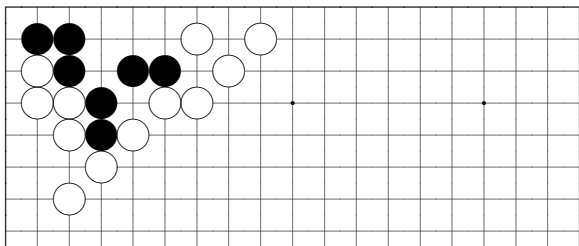
*problem 695*



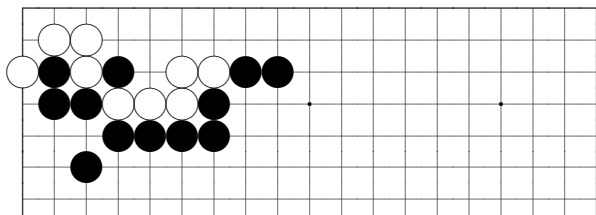
*problem 696*



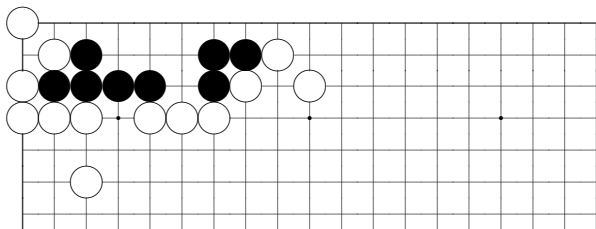
*problem 697*



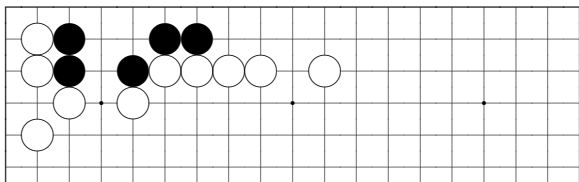
*problem 698*



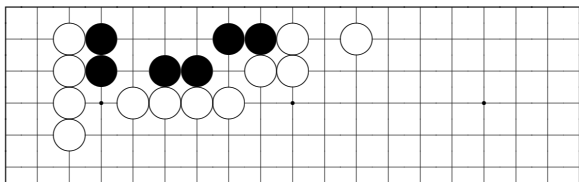
*problem 699*



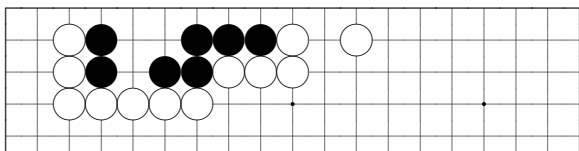
*problem 700*



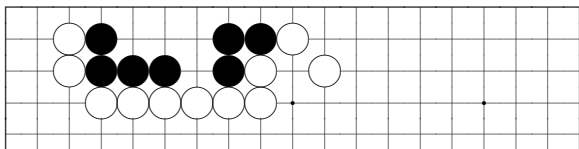
*problem 701*



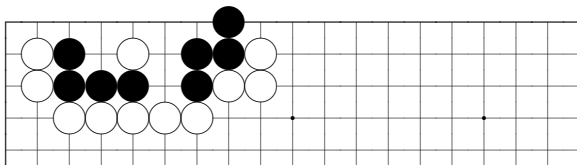
*problem 702*



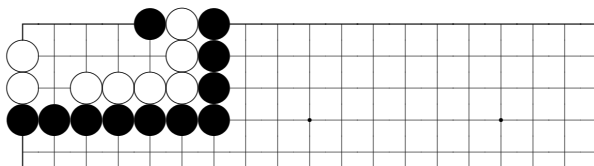
*problem 703*



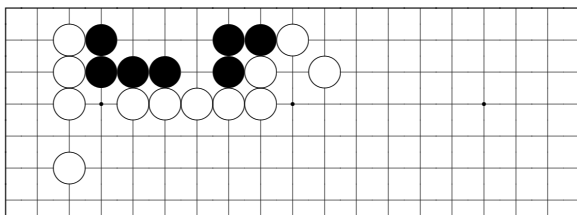
*problem 704*



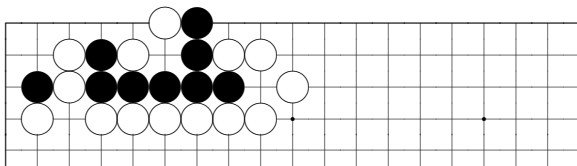
*problem 705*



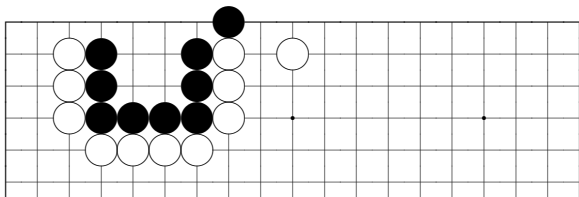
*problem 706*



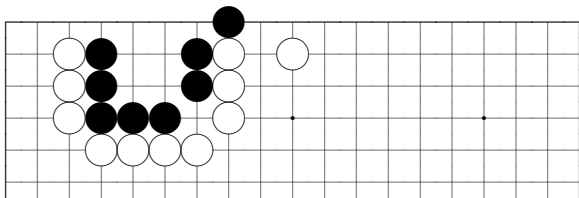
*problem 707*



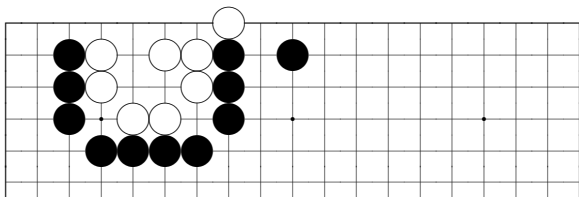
*problem 708*



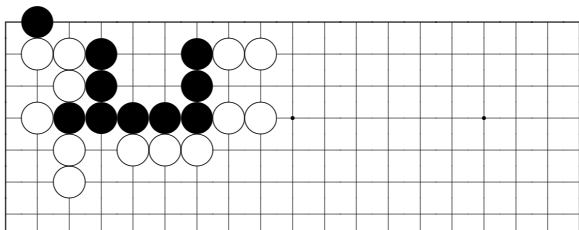
*problem 709*



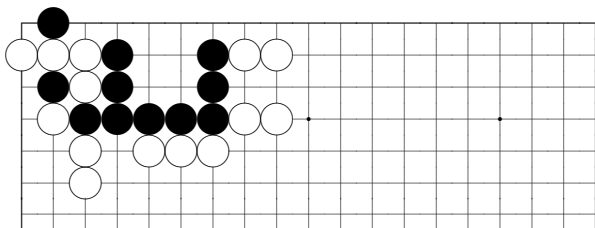
*problem 710*



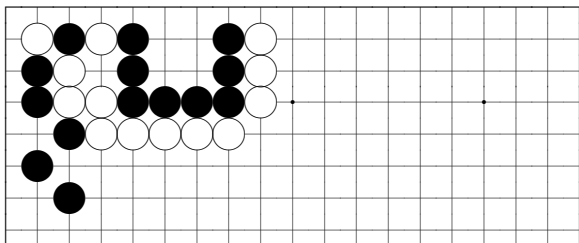
*problem 711*



*problem 712*

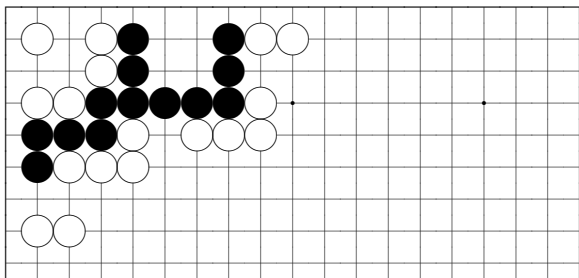


*problem 713*

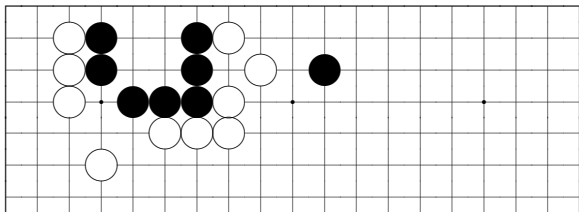


*problem 714*

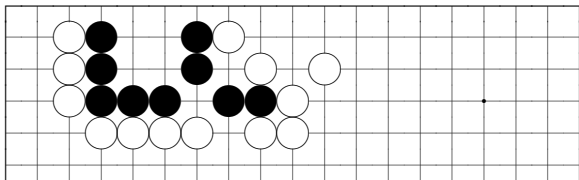




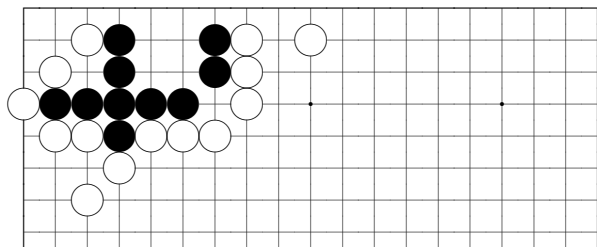
*problem 715*



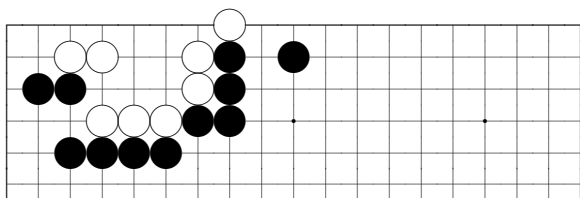
*problem 716*



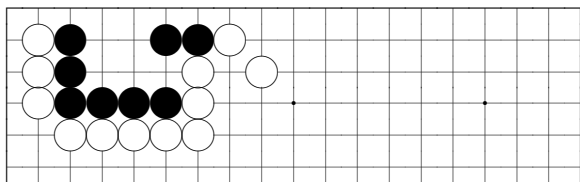
*problem 717*



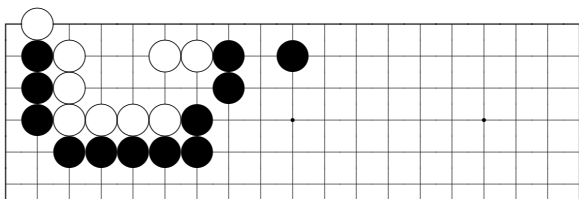
*problem 718*



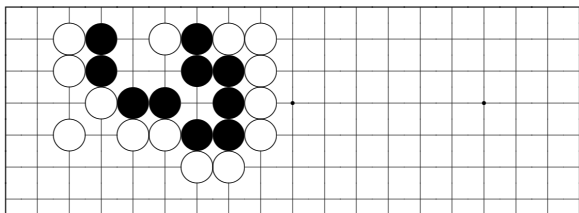
*problem 719*



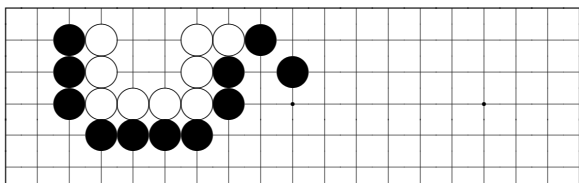
*problem 720*



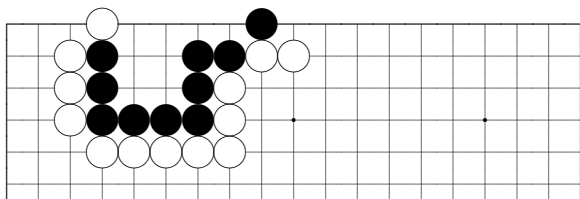
*problem 721*



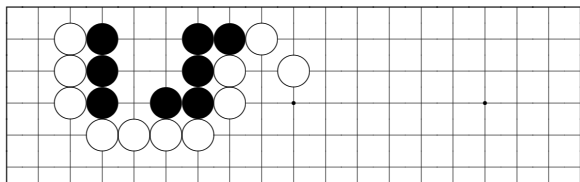
*problem 722*



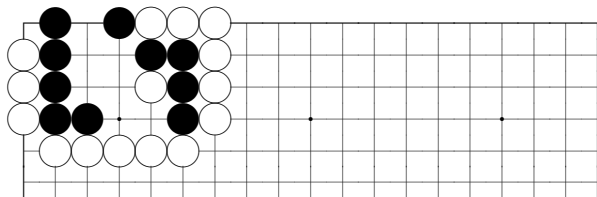
*problem 723*



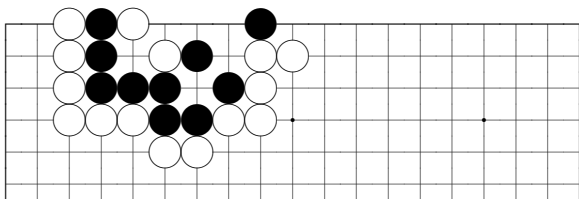
*problem 724*



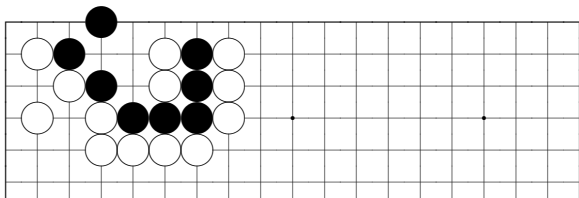
*problem 725*



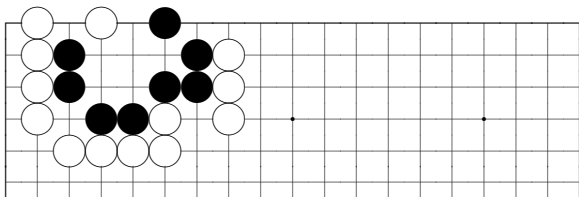
*problem 726*



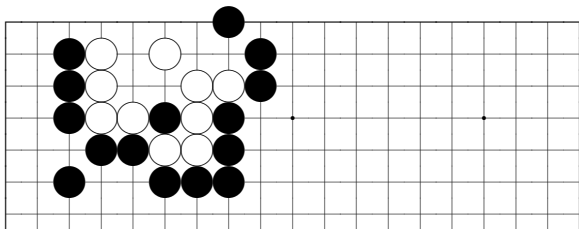
*problem 727*



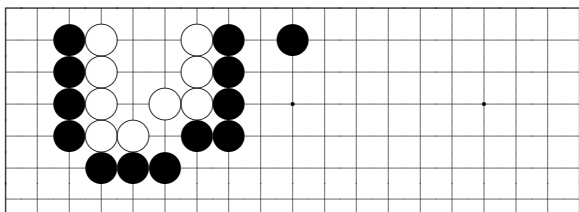
*problem 728*



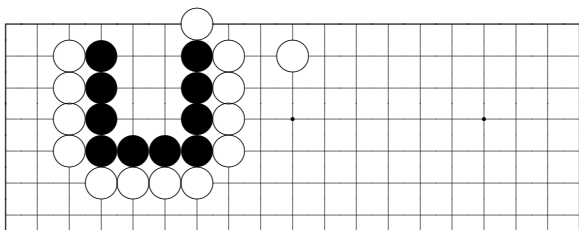
*problem 729*



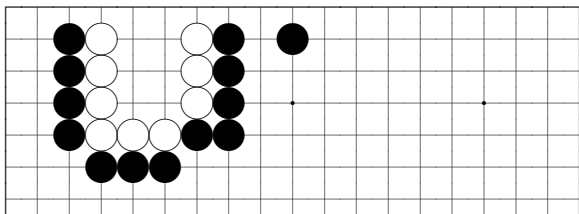
*problem 730*



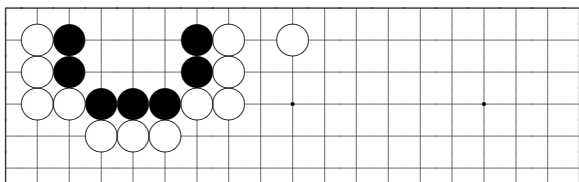
*problem 731*



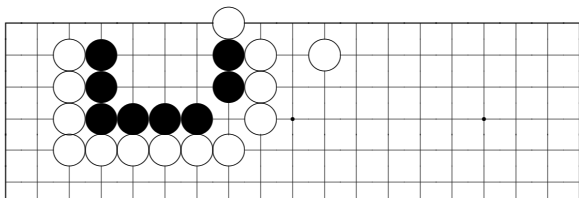
*problem 732*



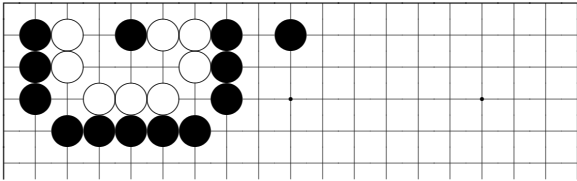
*problem 733*



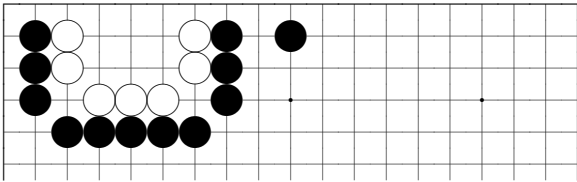
*problem 734*



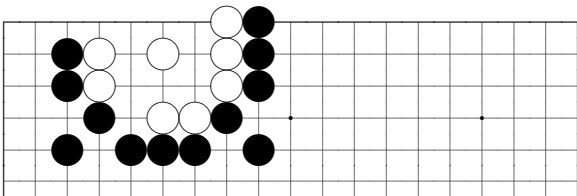
*problem 735*



*problem 736*

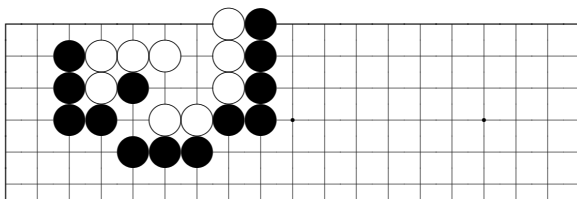


*problem 737*

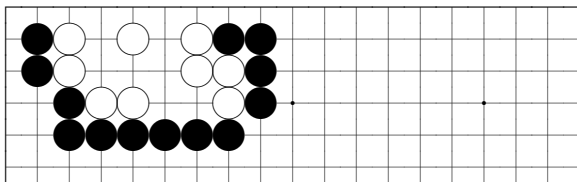


*problem 738*

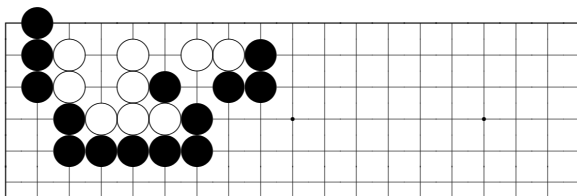




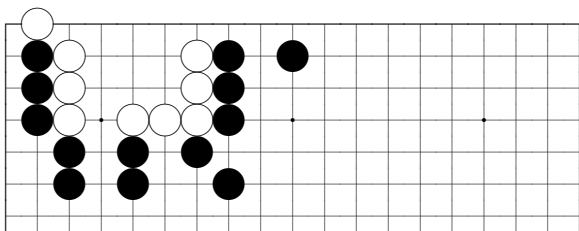
*problem 739*



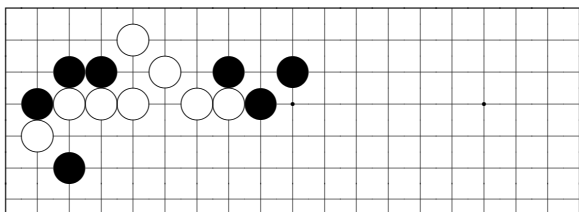
*problem 740*



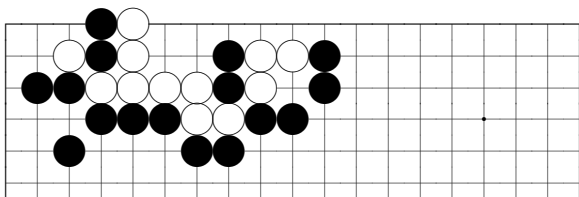
*problem 741*



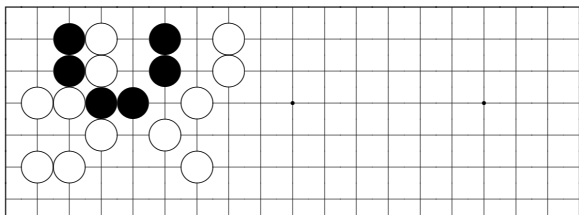
*problem 742*



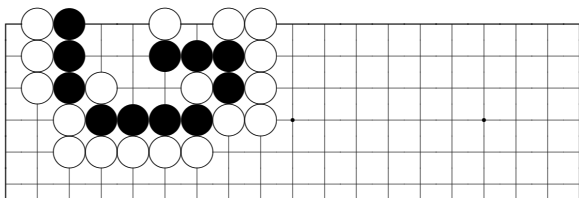
*problem 743*



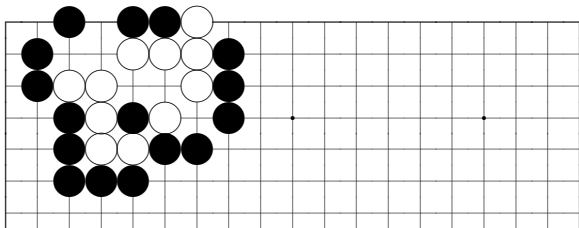
*problem 744*



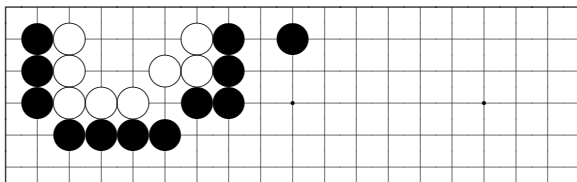
*problem 745*



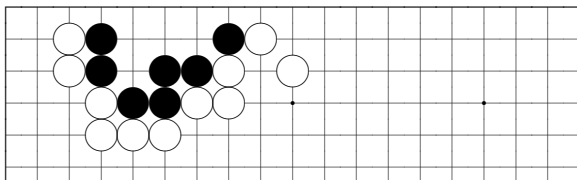
*problem 746*



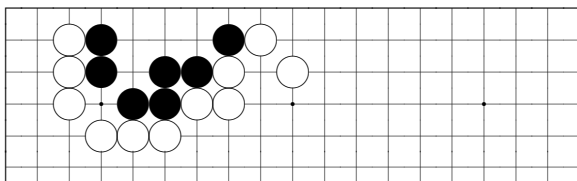
*problem 747*



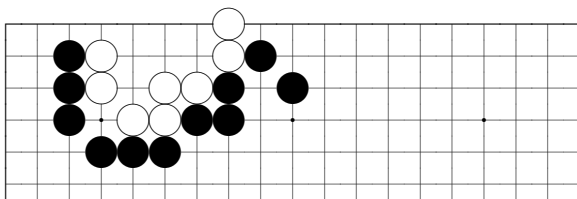
*problem 748*



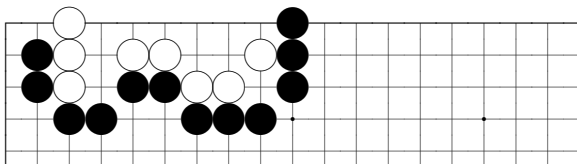
*problem 749*



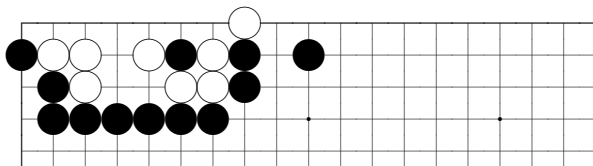
*problem 750*



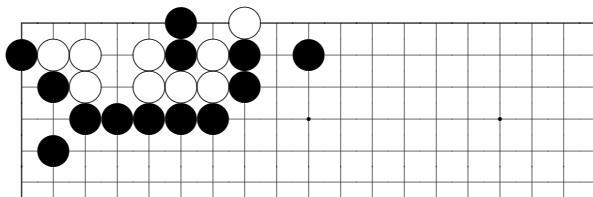
*problem 751*



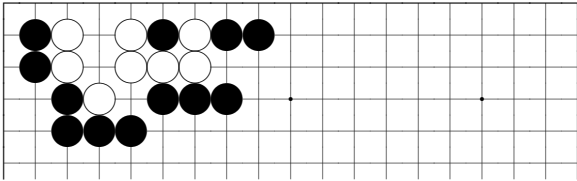
*problem 752*



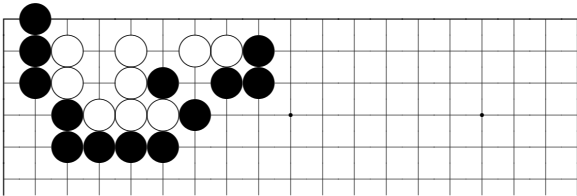
*problem 753*



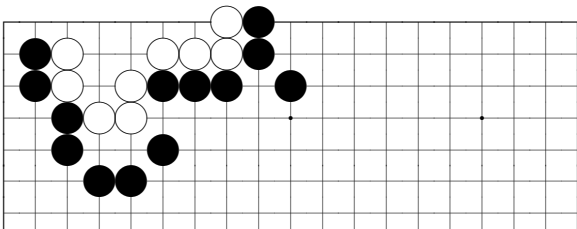
*problem 754*



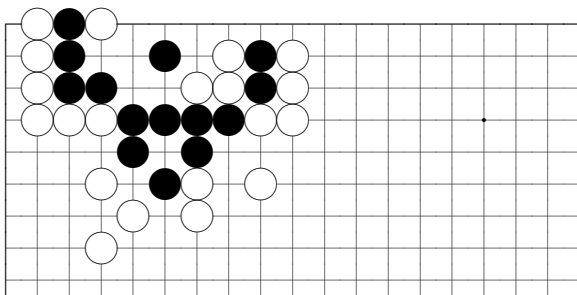
*problem 755*



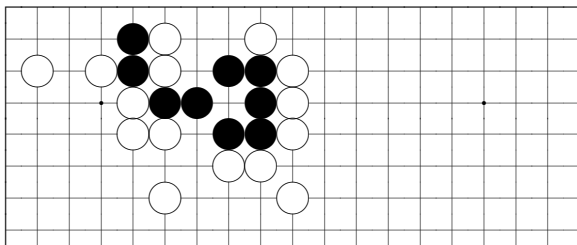
*problem 756*



*problem 757*



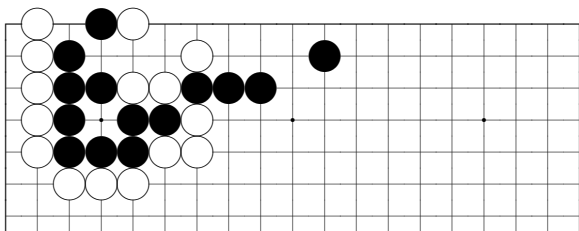
*problem 758*



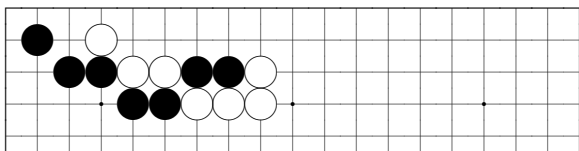
*problem 759*



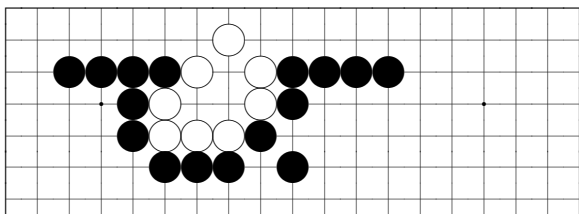




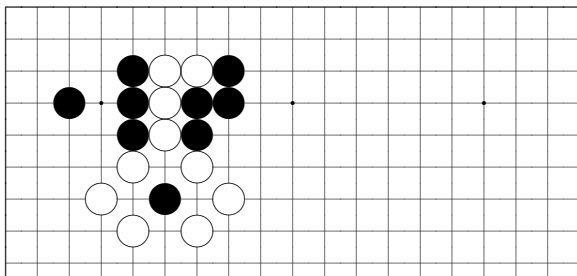
*problem 763*



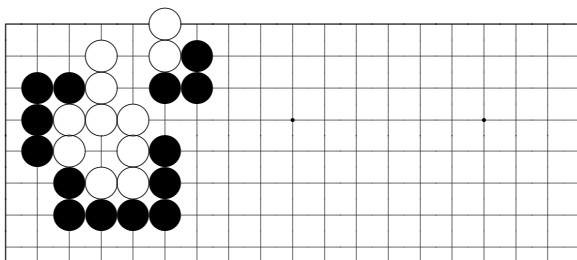
*problem 764*



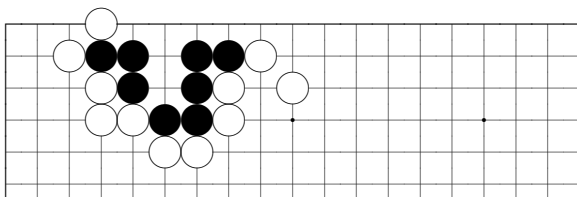
*problem 765*



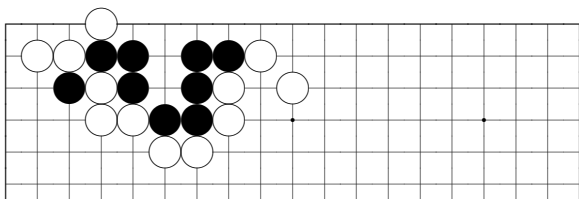
*problem 766*



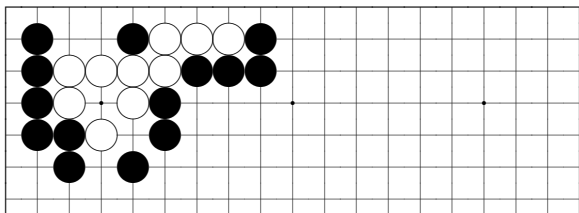
*problem 767*



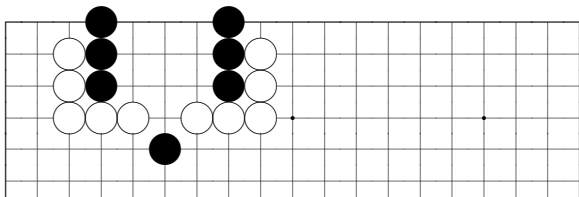
*problem 768*



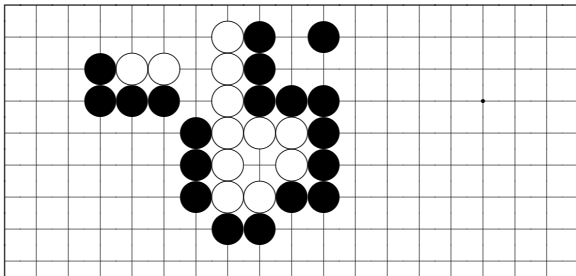
*problem 769*



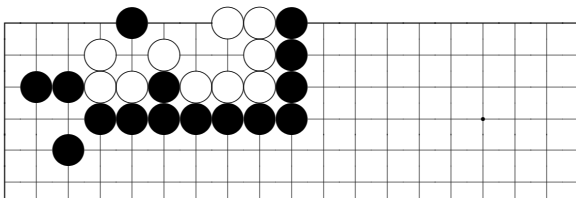
*problem 770*



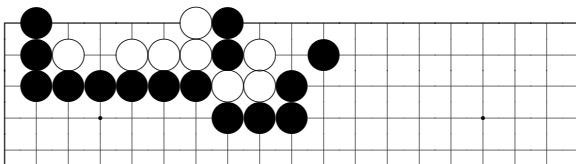
*problem 771*



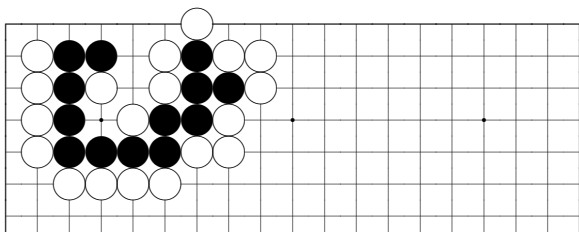
*problem 772*



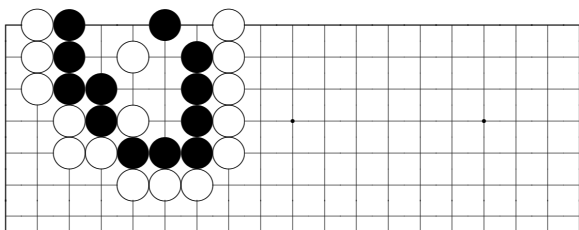
*problem 773*



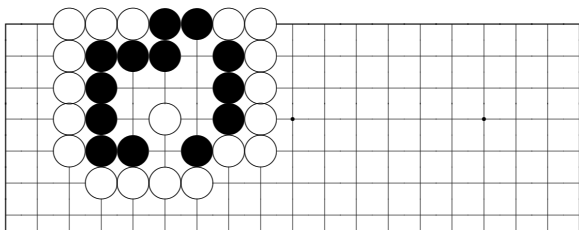
*problem 774*



*problem 775*

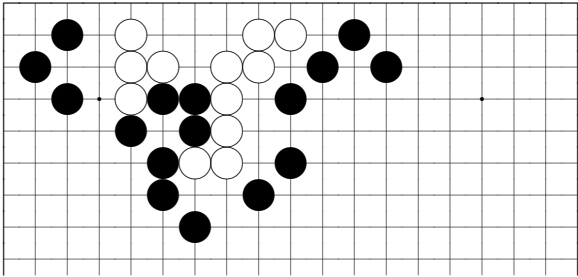


*problem 776*

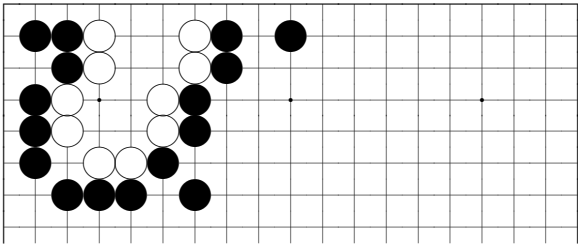


*problem 777*

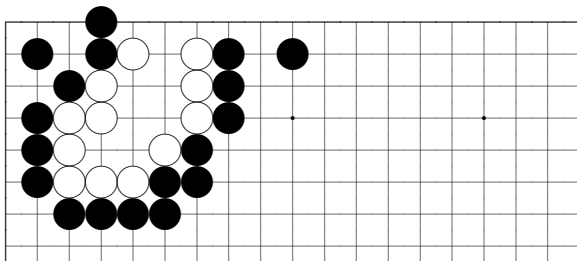




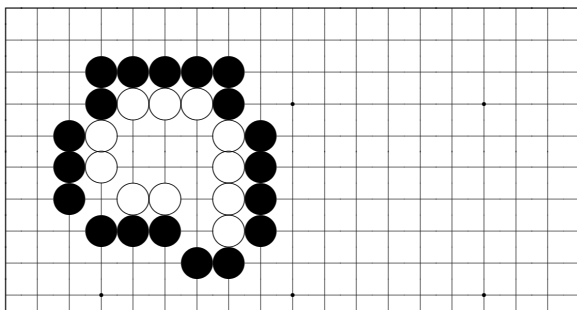
*problem 781*



*problem 782*

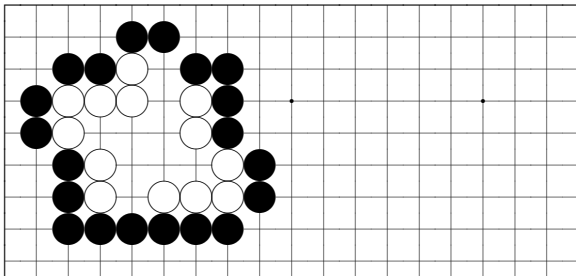


*problem 783*

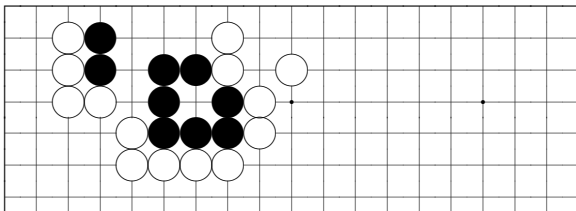


*problem 784*

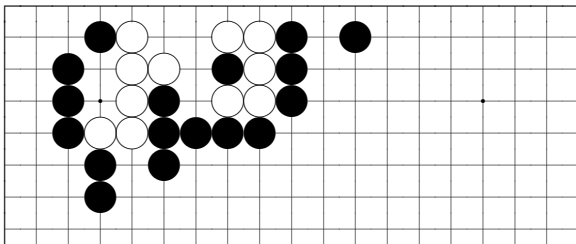




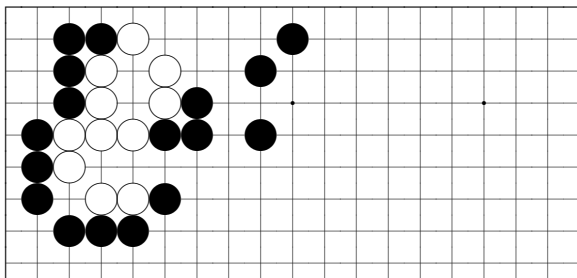
*problem 785*



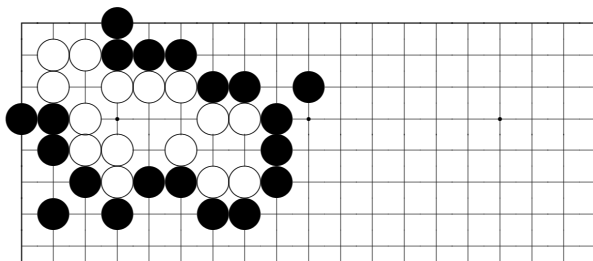
*problem 786*



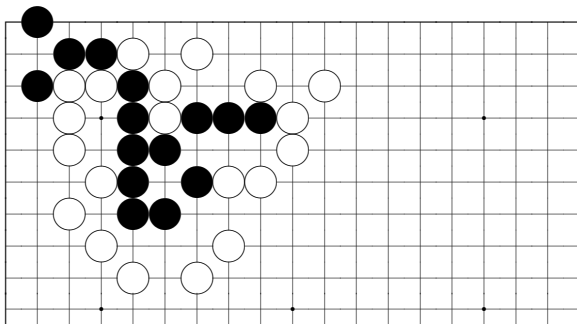
*problem 787*



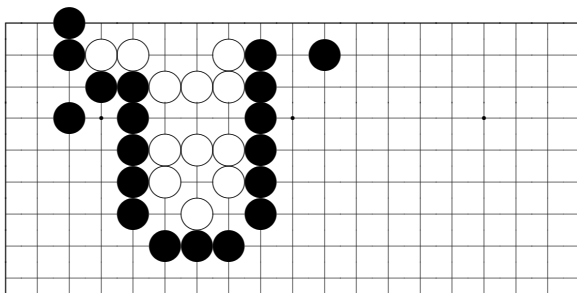
*problem 788*



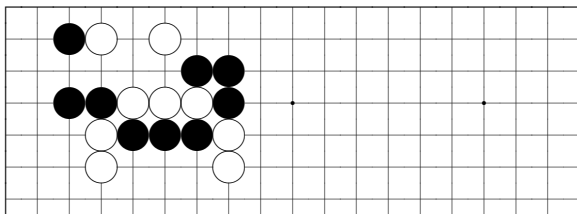
*problem 789*



*problem 790*



*problem 791*



*problem 792*