server.cpp

```
1: #include <stdio.h>
                   2: #include <sys/types.h>
                   3: #include <sys/socket.h>
                   4: #include <netinet/in.h>
                   5: #include <arpa/inet.h>
                   6: #include <netdb.h>
                   7:
                   8: #include <string.h>
                   9:
              10: //wata
              11: #include <string>
              12: #include <unistd.h>
              13: #include <iostream>
              14:
              15:
              16: #include "GameMaster.h"
              17: #include "Board.h"
              18:
              19: using namespace std;
              20:
               21: #define PLAYERNUM 2
               22: #define BUFFER SIZE 256
               23: #define DATASIZE 4//ä,\200å°|ã\201«ã\202\204ã\202\212ã\201"ã\202\212ã\201\225ã
\202\214\alpha\202\213\alpha\203\207\alpha\203\\alpha\202\alpha\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\201\text{@\20
               24: #define TIME_LIMIT -1
               25: #define BLACKSOCKET 0
               26: #define WHITESOCKET 1
               27:
               28: int flagforPS =0;
              29: /* \tilde{a} \ 203 \ 235 \tilde{a} \ 203 \ \tilde{a} \ 210 \ c \ 225 \ \tilde{a} \ 217 \ \tilde{a} \ 200 \ 201 \tilde{a} \ 202 \ \tilde{a} \ 202 \ \tilde{a} \ 203 \ 203 \ 210 *
              30: char ClientIP[PLAYERNUM][80]={"160.12.172.5","160.12.172.5"};
               31: unsigned short port[2]={9800,9810};
               32: int dstSocket[PLAYERNUM]; // c \times 233 x \times 211 \times 213
               33: int status[PLAYERNUM];
               34:
               35: /* sockaddr_in æ§\213é\200 ä½\223 */
               36: struct sockaddr in dstAddr[PLAYERNUM];
               37: int dstAddrSize[PLAYERNUM];
              38: char Teaminfo[20];
              39: char TeamName[PLAYERNUM][40];
              41: /* å\220\204ç"®ã\203\221ã\203©ã\203;ã\203¼ã\202; */
              42: int numrcv[PLAYERNUM];
              43: char buffer[BUFFER_SIZE];
              44:
              45:
              46: void kodama(){
              47:
              48:
                                          cout<<"\(\alpha\)202\(\alpha\)\(\alpha\)203\(\alpha\)203\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)3\(\alpha\)
              49:
                                          cout<<"\alpha\200\200\\200\\200\\\217i¿fi¿fi¿fa\203\\"<<endl;
                                          51:
                                          cout<<"ã\200\200 /\"彡\ã\203\ï¾\204ソï¾\202ã\203\216ã\203\237ï½\234"<<endl;
              52:
                                          cout<="ã\200\200"\234å\iã\200\200 _ "\idea\200\200 "3\220"\234"<=endl;
              53:
                                           cout<<"\alpha\200\200 \id=34\232\alpha\2\id=\id=\alpha\200\200 \id=34\232\alpha\2\id=\id=\id=\alpha\200\200 \id=34\232\alpha\2\id=\id=\id=\alpha\200\200 \id=\alpha\2\id=\id=\id=\alpha\2\id=\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alpha\2\id=\alph
              54:
                                           cout<<"\alpha\200\200(6\frac{1}{2}\alpha\200\200\alpha\202\frac{200\201 \frac{1}{2}\alpha\pi\alpha\alpha\210\frac{2}\alpha\=<endl;
              55:
                                           56:
                                           cout<<"\(\alpha\)200\200 \(\disp\)234\(\disp\)4\(\alpha\)3\(\disp\)200\200\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\dinp\)2\(\dinp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(\disp\)2\(
              57:
                                          cout<<"_ï¼\217rä\\211ï¾\220Dã\203¼-â\206\222ã\202½"<<endl;
              58:
                                          cout<<"\alpha\200\200|\infty\234^ rj \infty\"\alpha\203\216-\alpha\200\201"<<endl;
              59:
                                           cout<<"\(\alpha\)200\\200\alpha\210\sigma\210\sigma\/203\\/2\|\alpha\\200\\200\alpha\\203\\/2\|\"<<endl;
              60:
               61:
                                           //sleep(3);
               62: }
```

```
63:
      64: void colombia(string answer){
      67:
                  cout<<"\ai\200\214 i\\213_i\ai\200\211\ai\200\200\ai\200\200\ai\200\200 \ai\200\200 \ai\200\200
cout<<"i3/204a200\200a2003\2016 a200\200a2003\200\200a2003\200\200a2003\200\200a
1;
                  \200\200ã\200\200 ã\200\200ã\200\200ã\200\200___ ã\200\200 ã\200\200ã\200\200ã
\200\200\200\200\200\200\ a\200\200\200\2\203\\2"<<endl;
                  \200ã\200\200ā\200\200 ã\200\200ï¼\217__,ã\200\200 , â\200\220-ï¼4 ã\200\200 ã\200
\200 \alpha\200\200i \alpha\200\200\"<<endl;
                  \verb"cout" = $ \tilde{a}^200 \\ 200 \\ \tilde{a}^200 \\
      73:
\200ã\200\200
                                { i½¤ã\200\200 î»"<<endl;
                 ,ã\203\216ã\200\200ï¿£,!"<<endl;
                 cout<<"ã\200\200iã\200\200ã\200\200ã\200\200ã\202\235i½¤_ ã\200\200ã\200\200ã
      75:
\200\200,. '´ï¾\212ã\200\200,!"<<endl;
                 cout<<".ã\200\200ã\203½ã\200\201 ã\200\200ã\200\200ã\200\2001½\200\2001½
      i¼¼ ã\200\200ã\200\200 ã\200\200 ã\200\200ã\200\200ã\200\200ã\200\200 i¼\217\"ã\200
\200i¼ ã\200\200i¼\217"<<endl;
      77:
                 \200a\200\200i¾\212i¿fr/:::râ\200\225--â\200\225/::i¼\227a\200\200a\200\200 i¾\211a\200
\200\\200\\200
                              ï¼\217"<<endl;
                  \200\alpha\200\200\alpha\200\200\alpha\200\210'::. :' | ::/
                                                                                                                      /ã\200\200ã\200\200ã\200\200,
 ."<<endl;
      79:
                  cout<<"ã\200\200
                                                                      \"i½° "i½¤ã\200\200
                                                                                                               ï¼¼ã\203½::. ;::ï¼\232 | /ã\200
\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\2
½"<<end1;
      81:
                                                      ç-\224
                                                                                                                                                         â\224\202|"<
                cout<<"
                                                                                                "<<answer<<"
<endl;
                  82:
\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°\214ä°
<endl;
      83:
                  cout<<""<<endl;
      84:
                  cout<<""<<endl;
      85:
                  //sleep(3);
      86: }
      87:
      88:
      89:
      90:
      91: ostream& operator<<(ostream& os, const Point& p)
      92: {
      93:
                              string s = p_i
      94:
                              os << s;
```

95:

return os;

```
3
```

```
96: }
  97:
  98: void assign_stringtochar(string input, char *output){
         for(int i=0;i<DATASIZE;i++){</pre>
           output[i]=input[i];
  100:
  101:
  102: }
 103:
  104: void assign_chartostring(char *input, string &output){
  105:
        for(int i=0;i<DATASIZE;i++){</pre>
 106:
           output[i]=input[i];
 107:
 108: }
 109:
 110: void assign_char(char *input, char *output){
         for(int i=0;i<DATASIZE;i++){</pre>
 112:
           output[i]=input[i];
 113:
 114: }
 115:
  116:
 117: void GFprocess(ConsoleBoard &board) {
         if(board.countDisc(BLACK)>board.countDisc(WHITE)){
 118:
 119:
           cout << "WINER is BLACK" << endl;
 120:
 121:
         else if(board.countDisc(BLACK) < board.countDisc(WHITE)) {</pre>
 122:
           cout<<"WINER is WHITE"<<endl;</pre>
 123:
 124:
         else{
          cout<<"DRAW"<<endl;
 125:
 126:
 127:
         cout << "----- << endl;
 128:
         //********************é\200\232ä¿;ã\203\235ã\202¤ã\203³ã\203\210**********
*****
 129:
         char send_data[DATASIZE];
 130:
         send_data[0]='0';
 131:
         send_data[1]='0';
 132:
         send_data[2]='0';
 133:
         send_data[3]=GFFLAG;
 134:
 135:
         send(dstSocket[0], send_data,strlen(send_data)+1,0);
 136:
         send(dstSocket[1], send_data,strlen(send_data)+1,0);
 137: }
 138:
  139: void time_out(Color current_color){
 140:
 141:
         string in;
 142:
 143:
         if(current_color == BLACK){
 144:
          cout << "time out" <<endl;</pre>
 145:
           cout << "LOSER is BLACK "<<endl;</pre>
 146:
           cout << "please input any character and push Enter key" << endl;
 147:
           cin>>in;
 148:
 149:
         else{
           cout << " time out" <<endl;</pre>
 150:
  151:
           cout << "LOSER is WHITE"<<endl;</pre>
  152:
           cout << "please input any character and push Enter key" << endl;
 153:
           cin>>in;
 154:
 155:
         *****
 156:
         //client \tilde{a} \ 201^{-} \hat{a} \ 213 \ 235 \approx \ 211 \ 213 \tilde{a} \ 201 \ll c \mu \ 202 \tilde{a}^{\circ} \ 206?
 157:
         char send_data[DATASIZE];
```

```
158:
         send_data[0]='0';
  159:
         send_data[1]='0';
  160:
         send_data[2]='0';
  161:
         send_data[3]=GFFLAG;
  162:
  163:
         send(dstSocket[0], send_data,strlen(send_data)+1,0);
         send(dstSocket[1], send_data,strlen(send_data)+1,0);
  164:
  165:
         exit(0);
  166: }
  167:
  168: void against_rules(Color current_color){
  169:
  170:
         string in;
  171:
  172:
         if(current_color == BLACK){
  173:
           cout << "you against the rule" <<endl;</pre>
  174:
           cout << "LOSER is BLACK "<<endl;</pre>
  175:
           cout << "please input any character and push Enter key" << endl;
  176:
           cin>>in;
  177:
  178:
         else{
  179:
           cout << "you against the rule" <<endl;</pre>
  180:
           cout << "LOSER is WHITE"<<endl;</pre>
  181:
           cout << "please input any character and push Enter key"<<endl;</pre>
  182:
           cin>>in;
  183:
  184:
         //********************é\200\232ä¿;ã\203\235ã\202¤ã\203³ã\203\210***********
*****
  185:
         //client \tilde{a} \ 201^{-} \hat{a} \ 213 \ 235 \approx \ 211 \ 213 \tilde{a} \ 201 \ll c\mu \ 202 \tilde{a}^{\circ} \ 206?
  186:
         char send_data[DATASIZE];
  187:
         send_data[0]='0';
  188:
         send_data[1]='0';
  189:
         send_data[2]='0';
  190:
         send_data[3]=GFFLAG;
  191:
  192:
         send(dstSocket[BLACKSOCKET], send_data,strlen(send_data)+1,0);
  193:
         send(dstSocket[WHITESOCKET], send_data,strlen(send_data)+1,0);
  194:
         exit(0);
  195: }
  196:
  197: bool attack_chance(int current_color, ConsoleBoard &board, string premove) {
  198:
  199:
         if(current_color == BLACK){
  200:
            cout << "So, Black, What number?"<<endl;</pre>
  201:
  202:
  203:
         else{
  204:
           cout << "So, White, What number?"<<endl;</pre>
  205:
  206:
  207:
  208:
         string in(DATASIZE,0);
         char buffer[BUFFER_SIZE];
  209:
  210:
         char send_data[DATASIZE];
  211:
  212:
  213:
  214:
         //********************é\200\232ä¿;ã\203\235ã\202¤ã\203³ã\203\210**********
*****
  215:
  216:
         premove[3] = ACFLAG;
  217:
         if(flagforPS ==true){
  218:
           premove[3] = premove[3] | PSFLAG;
  219:
         }
```

## server.cpp

```
220:
                             assign_stringtochar(premove, send_data);
      221:
                             if(current color==BLACK){
      222:
                                    if(TIME_LIMIT == send(dstSocket[BLACKSOCKET], send_data,strlen(send_data)+1,
0)) time_out(current_color);
                                   if(TIME_LIMIT == recv(dstSocket[BLACKSOCKET], buffer, BUFFER_SIZE, 0)) time_
out(current_color);
       224:
                             }else{
       225:
                                       if(TIME_LIMIT == send(dstSocket[WHITESOCKET], send_data,strlen(send_data)+1
,0)) time_out(current_color);
                                      if(TIME_LIMIT == recv(dstSocket[WHITESOCKET], buffer, BUFFER_SIZE, 0)) time
_out(current_color);
      227:
       228:
                            assign_chartostring(buffer, in);
      229:
                            cout<<"revese Disk:"<<in<<endl;</pre>
                             //*********
      230:
      231:
      232:
      233:
                             //debug
                             //cout<<"char to string buffer0"<<buffer<<endl;</pre>
      234:
      235:
                             //cout<<"char to string buffer1"<<buffer<<endl;</pre>
       236:
                             //cout<<"char to string buffer2"<<buffer<<endl;</pre>
       237:
                             //cout<<"char to string buffer3"<<hex<(int)buffer<<endl;</pre>
       238:
      239:
                            Point p(in);
      240:
       241:
                             \2373\airan \201\214\airan \201\\airan \airan \201\\213\airan \201\\237\airan \202\\211
                             if(board.getColor(p) != (-current_color)){
      243:
                                   cout << "Against the rules" << endl;
      244:
                                   against_rules(current_color);
       245:
       246:
                             \mathbf{else} \big\{ / / \varsigma \setminus 233 \, \varkappa \setminus 211 \setminus 213\widetilde{\mathbf{a}} \setminus 201 \cdot \varphi \setminus 237^3\widetilde{\mathbf{a}} \setminus 201 \setminus 214\widetilde{\mathbf{a}} \setminus 201 \setminus 202\widetilde{\mathbf{a}} \setminus 201 \cdot 237\widetilde{\mathbf{a}} \setminus 202 \setminus 211 \times 237\widetilde{\mathbf{a}} \setminus 202 \times 211 \times 2
       247:
                                   colombia(in);
                                   board.Reverse_disk(p, current_color);
       248:
       249:
                                   assign_char(buffer, send_data);
       250:
                                   send_data[3]=ARFLAG;
                                    //********************é\200\232ä¿;ã\203\235ã\202¤ã\203³ã\203\210********
       251:
*****
      252:
                                   if(current_color==BLACK){
       253:
                                          if(TIME_LIMIT == send(dstSocket[WHITESOCKET], send_data,strlen(send_data)+
1,0)) time_out(current_color);
       254:
                                    }else{
       255:
                                          if(TIME_LIMIT == send(dstSocket[BLACKSOCKET], send_data,strlen(send_data)+
1,0)) time_out(current_color);
       256:
                                    //**********************
       257:
       258:
      259:
                             if(board.isGameOver()){
      260:
                                   board.print();
                                   cout << "Black Disk:" << board.countDisc(BLACK) << " ";</pre>
      261:
      262:
                                   cout << "White Disk:" << board.countDisc(WHITE) << " ";</pre>
       263:
                                   cout << "Empty:" << board.countDisc(EMPTY) << endl;</pre>
      264:
                                   GFprocess(board);
      265:
       266:
                             return true;
       267: }
       268:
       269:
       270:
       271:
      272:
      273: int
       274: main() {
                             for(int i=0;i<PLAYERNUM;i++){</pre>
```

```
276:
           dstAddrSize[i] = sizeof(dstAddr);
  277:
  278:
         /***********************
  279:
         /* ç\233,æ\211\213å\205\210ã\202¢ã\203\211ã\203¬ã\202¹ã\201®å\205¥å\212\233 */
  280:
  281:
  282:
  283:
         cout << "BLACK IP address :";</pre>
  284:
         cin>>ClientIP[BLACKSOCKET];
  285:
  286:
         cout << "BLACK port :";
  287:
         cin>>port[BLACKSOCKET];
  288:
  289:
         cout << "WHITE IP adrress :";</pre>
  290:
         cin>>ClientIP[WHITESOCKET];
  291:
  292:
         cout<<"WHITE port :";</pre>
  293:
         cin>>port[WHITESOCKET];
  294:
         /********************
  295:
  296:
         for(int i=0;i<PLAYERNUM;i++){</pre>
  297:
           /* sockaddr_in &$\213\infty\200 \arm \alpha\223\ai\201\text{@a}\203\203\210 */
  298:
           memset(&dstAddr[i], 0, sizeof(dstAddr));
  299:
           dstAddr[i].sin_port = htons(port[i]);
  300:
           dstAddr[i].sin_family = AF_INET;
  301:
           dstAddr[i].sin_addr.s_addr = htonl(INADDR_ANY);
  302:
  303:
           /* ã\202½ã\202±ã\203\203ã\203\210ã\201®¢\224\237æ\210\220 */
  304:
           dstSocket[i] = socket(AF_INET, SOCK_STREAM, 0);
  305:
  306:
           /* ã\202½ã\202±ã\203\203ã\203\210ã\201®ã\203\220ã\202¤ã\203³ã\203\211 */
           bind(dstSocket[i], (struct sockaddr *) &dstAddr[i], sizeof(dstAddr[i]));
  307:
  308:
           /* æ\216¥ç¶\232ã\201®è"±å\217 */
  309:
  310:
           listen(dstSocket[i], 1);
  311:
  312:
           /* æ\216¥ç¶\232ã\201®å\217\227ä»\230ã\201\221 */
  313:
           printf("Waiting for connection ...\n");
  314:
           dstSocket[i] = accept(dstSocket[i], (struct sockaddr *) &dstAddr[i], &dstAdd
rSize[i]);
  315:
           printf("Connected from %s\n", inet_ntoa(dstAddr[i].sin_addr));
  316:
  317:
           /* ã\203\221ã\202±ã\203\203ã\203\210å\217\227ä¿; */
  318:
           numrcv[i] = recv(dstSocket[i], buffer, BUFFER_SIZE, 0);
  319:
           cout<<"received:"<<buffer<<endl;</pre>
  320:
  321:
           if(i==0){
  322:
             strcpy(Teaminfo, "Black");
  323:
             //å\220\215å\211\215ç\231»é\214<sup>2</sup>å\207¦ç\220\206
  324:
             strcpy(TeamName[i],buffer);
  325:
             cout<<"Black's Team name : "<<TeamName[i]<<endl;</pre>
  326:
           }else {
             strcpy(Teaminfo,"White");
  327:
  328:
             //å\220\215å\211\215c\231»\'e\214^2å\207/c\220\206
  329:
             strcpy(TeamName[i],buffer);
  330:
             cout<<"White's Team name : "<<TeamName[i]<<endl;</pre>
  331:
  332:
  333:
           send(dstSocket[i], Teaminfo,strlen(Teaminfo)+1, 0);
  334:
         }
  335:
  336:
  337:
         /*ã\202²ã\203¼ã\203 ã\202¹ã\202¿ã\203¼ã\203\210*/
  338:
         ConsoleBoard board;
```

```
339:
                                      //watanabe wrote 2017/3/31
        340:
                                     string premove(DATASIZE,0);
        341:
                                     premove[0]='0';
        342:
                                     premove[1]='0';
        343:
                                     premove[2]='0';
                                     premove[3] = 0;
        344:
        345:
                                      int attack_cahnce_status=false;
        346:
                                      int mt_status_BLACK=false;
        347:
                                      int mt_status_WHITE=false;
         348:
        349:
                                     //å\210¶é\231\220æ\231\202é\226\223
         350:
                                     struct timeval limit_tv;
        351:
                                      limit_tv.tv_sec = 1;//sec
        352:
                                      limit_tv.tv_usec = 0;//usec
        353:
        354:
                                     "-å®\232
         355:
                                     for(int i=0;i<PLAYERNUM;i++){</pre>
                                              setsockopt(dstSocket[i], SOL_SOCKET, SO_SNDTIMEO, (char *)&limit_tv, sizeof(
         356:
limit_tv));
        357:
         358:
         359:
                                    while(true){
         360:
         361:
                                                      board.print();
        362:
                                                       cout << "Black Disk:" << board.countDisc(BLACK) << " ";</pre>
        363:
                                                      cout << "White Disk:" << board.countDisc(WHITE) << " ";</pre>
        364:
                                                       cout << "Empty:" << board.countDisc(EMPTY) << endl;</pre>
        365:
        366:
                                                       int current_color = board.getCurrentColor();
         367:
                                                       if(current_color == BLACK){
         368:
                                                               cout<<"Black Turn("<<TeamName[BLACKSOCKET]<<")"<<end1;</pre>
         369:
         370:
                                                      else{
        371:
                                                               cout<<"White Turn("<<TeamName[WHITESOCKET]<<")"<<endl;</pre>
         372:
        373:
        374:
         375:
                                                      cout << endl << endl;</pre>
        376:
        377:
                                                      \label{eq:condition} $$ 237^3\ddot{a} \times \tilde{a} \ 212\dot{e}^2 \ \tilde{a} \ 201 \ 221\tilde{a} \ 201 \ \tilde{a} \ 201 \ 204\tilde{a} \ 202 \ 213 \ \tilde{a} \ 202\dot{e} \ \tilde{a} \ 203 \ 203\tilde{a} \ 202^-\tilde{a} \ 203 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 201 \ 2
\tilde{a} \setminus 203 \hat{t} \tilde{a} \setminus 203^3 \tilde{a} \setminus 202^1 \tilde{a} \setminus 201 \setminus 214 \hat{e} \mu \cdot \tilde{a} \setminus 201 \setminus 223 \tilde{a} \setminus 201 \hat{t} \tilde{a} \setminus 201 \setminus 204 \tilde{a} \setminus 201^2 \tilde{a} \setminus 201 \setminus 204 \tilde{a} \setminus 201 \times 201 \times 204 \tilde{a} \setminus 201 \setminus 204 \tilde{a} \setminus 201 \times 204 \tilde{a
         379:
                                                       if( (board.countDisc(EMPTY) <= 10) && ( (board.countDisc(-current_color)-b</pre>
oard.countDisc(current_color) ) >= ATTACKNUM) && (attack_cahnce_status == false ) ){
         380:
                                                               kodama();
         381:
                                                               attack_cahnce_status = true;
         382:
                                                               attack_chance(current_color, board, premove);
        383:
        384:
                                                               board.print();
        385:
                                                               cout << "Black Disk:" << board.countDisc(BLACK) << " ";</pre>
                                                               cout << "White Disk:" << board.countDisc(WHITE) << " ";</pre>
        386:
                                                               cout << "Empty:" << board.countDisc(EMPTY) << endl;</pre>
        387:
         388:
         389:
                                                               if(current_color == BLACK){
         390:
                                                                       cout<<"Black Turn"<<endl;</pre>
         391:
        392:
                                                               else{
         393:
                                                                       cout<<"White Turn"<<endl;</pre>
         394:
         395:
                                                               premove[0]='0';
                                                               premove[1]='0';
         396:
        397:
                                                               premove[2]='0';
```

```
398:
                }
  399:
  400:
               cout << "input your move: ";</pre>
  401:
               Point p;
  402:
  403:
               string in(DATASIZE,0);
  404:
                //**********************é\200\232ä¿;ã\203\235ã\202¤ã\203³ã\203\210*****
  405:
******
  406:
               //send data to player and recieve data from player
  407:
               premove[3] = 0;
  408:
               if(flagforPS == true) premove[3] = premove[3] | PSFLAG;
  409:
               char send_data[DATASIZE];
  410:
               assign_stringtochar(premove, send_data);
  411:
               if(current_color == BLACK){
  412:
                 if(TIME_LIMIT == send(dstSocket[BLACKSOCKET], send_data,strlen(send_da
ta)+1,0)) time_out(current_color);
                  if(TIME_LIMIT == recv(dstSocket[BLACKSOCKET], buffer, BUFFER_SIZE,0))
time_out(current_color);
  414:
                }else {
  415:
                  if(TIME_LIMIT == send(dstSocket[WHITESOCKET], send_data,strlen(send_d
ata)+1,0)) time_out(current_color);
                  if(TIME_LIMIT == recv(dstSocket[WHITESOCKET], buffer, BUFFER_SIZE, 0)
  416:
) time_out(current_color);
  417:
  418:
               flagforPS = false;
  419:
               assign_chartostring(buffer, in);
  420:
               cout << in << endl;
  421:
               cout << "in0" << in[0] << endl;
               cout<<"in1"<<in[1]<<endl;
  422:
  423:
               cout << "in2" << in[2] << endl;
  424:
               cout << "in3" << hex << in[3] << endl;
              /*********************
  425:
  426:
  427:
  428:
               //æ\211\213å\210¤æ\226-
  429:
                //ã\203\221ã\202¹ã\201ªã\202\211
  430:
             if(in[0] == 'p')
  431:
                {
  432:
                  // ã\203\221ã\202¹
  433:
                  if(!board.pass()){
  434:
                    cerr << "you can't pass " << endl;</pre>
  435:
                    against_rules(current_color);
  436:
                  }else {
  437:
                    cout << "PASS" << endl;
  438:
                    flagforPS= true;
  439:
                    premove[0]='0';
  440:
                    premove[1]='0';
  441:
                    premove[2]='0';
  442:
  443:
                  if(board.isGameOver())
  444:
                    { board.print();
                      cout << "Black Disk:" << board.countDisc(BLACK) << " ";</pre>
  445:
  446:
                      cout << "White Disk:" << board.countDisc(WHITE) << " ";</pre>
                      cout << "Empty:" << board.countDisc(EMPTY) << endl;</pre>
  447:
  448:
                      GFprocess(board);
  449:
                      break;
  450:
                    }
  451:
  452:
                 continue;
  453:
                }
  454:
  455:
             //point ~~201~au\211~~217\233
  456:
             try
```

```
457:
                                  {
    458:
                                      Point parse(in);
    459:
                                      p = parse;
    460:
    461:
    462:
                             //é\226\223é\201\225ã\201£ã\201\237å\205\å\212\233
     463:
                             catch(invalid_argument e)
     464:
     465:
                                      cerr <<"wrong your input" << endl;</pre>
                                      against_rules(current_color);
    466:
     467:
                                      continue;
    468:
                                  }
    469:
     470:
                             //\tilde{a} \ 201 \ 212\tilde{a} \ 201 \ 221\tilde{a} \ 201^{\tilde{a}} \ 201 \ 204\tilde{a} \ \tilde{x} \ 211 \ 200
     471:
                             if(board.move(p) == false)
     472:
                                  {
     473:
                                      cerr << "you can't move the place" << endl;</pre>
     474:
                                      against_rules(current_color);
     475:
                                      continue;
     476:
     477:
    478:
                             premove = in;
    479:
    480:
     481:
                              //test mtflag
     482:
                             if((p.flag & MTFLAG) == MTFLAG){
     483:
                                  if( (current_color == WHITE) && (mt_status_WHITE == true)){\frac{}{/\tilde{a}}202}202\tilde{a}
\201\227MTFLAGã\201\214å\220\214ã\201\230ã\203\227ã\203¬ã\202¤ã\203¤ã\203¼ã\201§ä°\214å
°/ã\201\202ã\201£ã\201\237ã\202\211é\201\225å\217\215 flagã\201«ã\202\210ã\202\212curre
ntcolorã \ 201^{-}ã \ 201 \ 235ã \ 201@ã \ 201½ã \ 201½ã \ 201§ã \ 202 \ 210ã \ 201 \ 204 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 202 \ 20
     484:
                                      against_rules(current_color);
     485:
     486:
                                 else if( (current_color == BLACK) && (mt_status_BLACK == true)){
    487:
                                      against_rules(current_color);
     488:
    489:
                                 else if(board.getTurns()<10){</pre>
    490:
                                      against_rules(current_color);
     491:
     492:
                                 cout<<"Still my turn!!!!!!!"<<endl;</pre>
     493:
     494:
                                 if(current_color==WHITE){
     495:
                                      mt_status_WHITE=true;
     496:
     497:
                                 else{
     498:
                                      mt_status_BLACK=true;
    499:
    500:
                                 premove[3] = MTFLAG;
    501:
                                  //mtã\201\213ã\201¤ps
    502:
                                  if(flagforPS == true){
    503:
                                      premove[3]=MTFLAG | PSFLAG;
    504:
    505:
                                  //**************************é\200\232ä¿;ã\203\235ã\202¤ã\203³ã\203\210*****
    506:
* * * * * * * * * * * * *
     507:
                                 char send_data[DATASIZE];
     508:
                                  assign_stringtochar(premove, send_data);
     509:
                                 if(current_color==BLACK){
    510:
                                      if(TIME_LIMIT == send(dstSocket[WHITESOCKET], send_data,strlen(send_da
ta)+1,0)) time_out(current_color);
    511:
                                  }else{
    512:
                                      if(TIME_LIMIT == send(dstSocket[BLACKSOCKET], send_data,strlen(send_da
ta)+1,0)) time_out(current_color);
    513:
    514:
                                 premove[0]='0';
```

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```
515:
              premove[1]='0';
516:
             premove[2]='0';
517:
             premove[3]=0;
518:
             continue;
519:
520:
521:
522:
           if(board.isGameOver())
523:
524:
                board.print();
525:
                cout << "Black Disk:" << board.countDisc(BLACK) << " ";</pre>
526:
                cout << "White Disk:" << board.countDisc(WHITE) << " ";</pre>
527:
                cout << "Empty:" << board.countDisc(EMPTY) << endl;</pre>
528:
                GFprocess(board);
529:
                break;
             }
530:
         }
531:
532:
533: }
534:
```