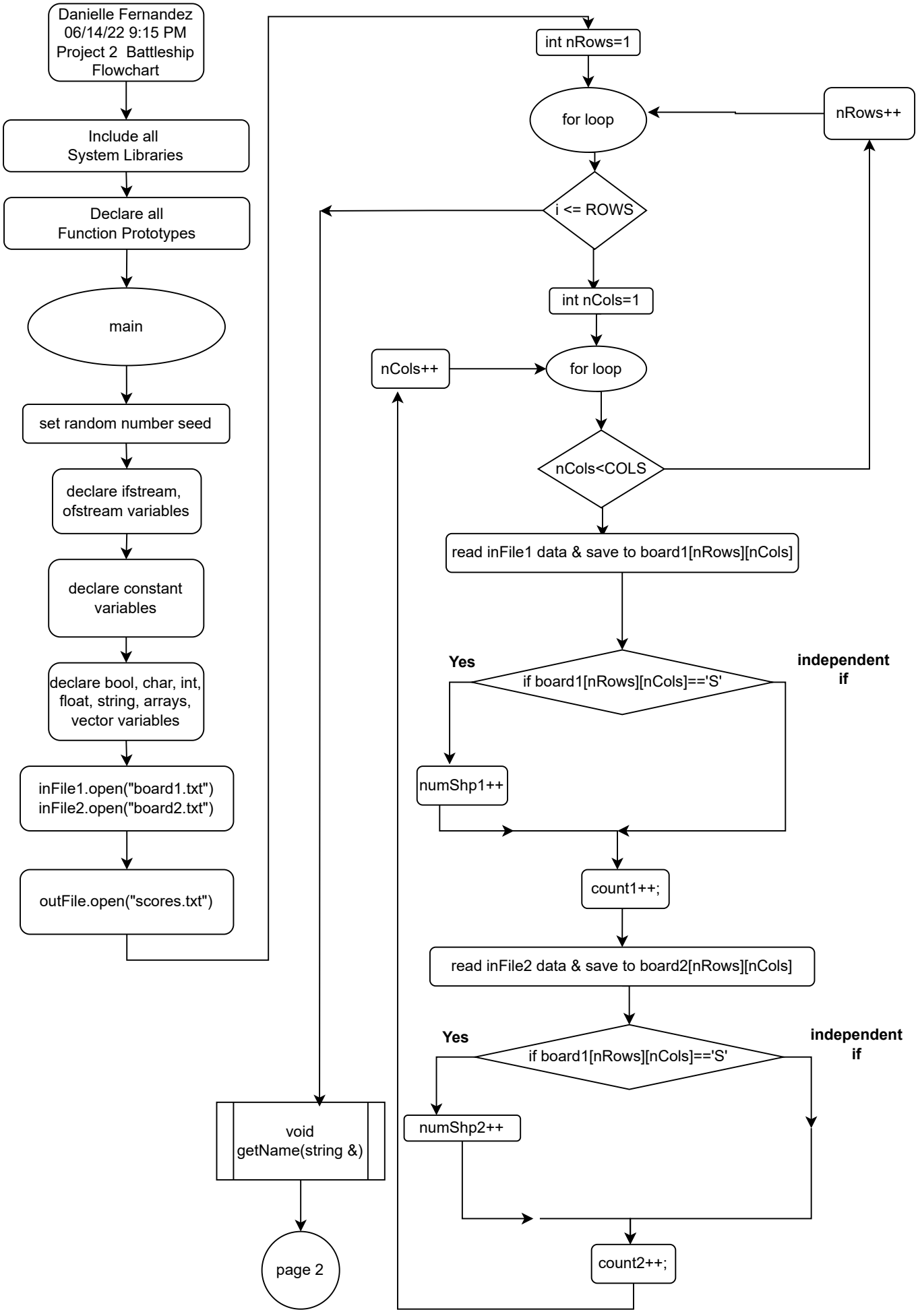
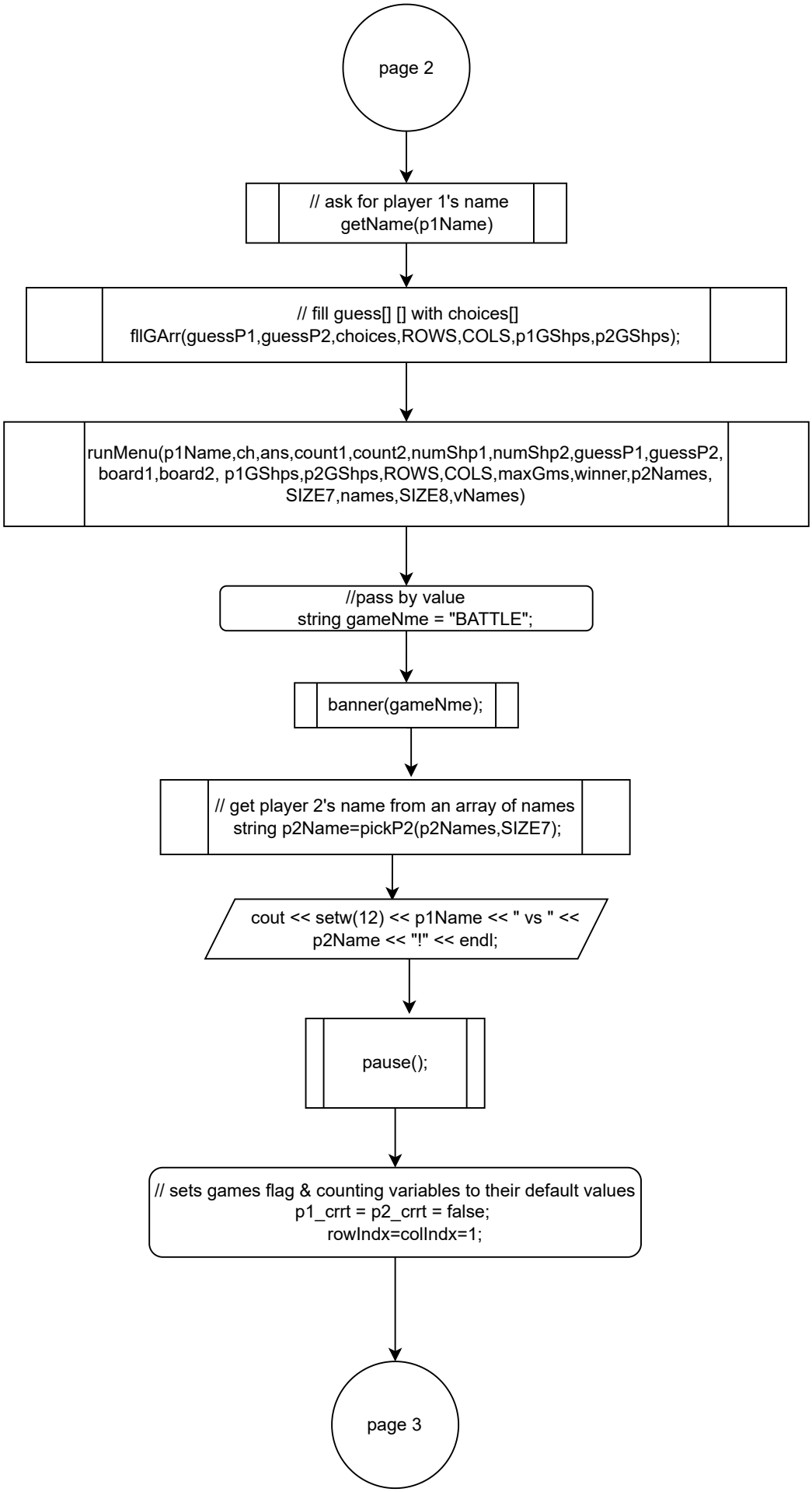
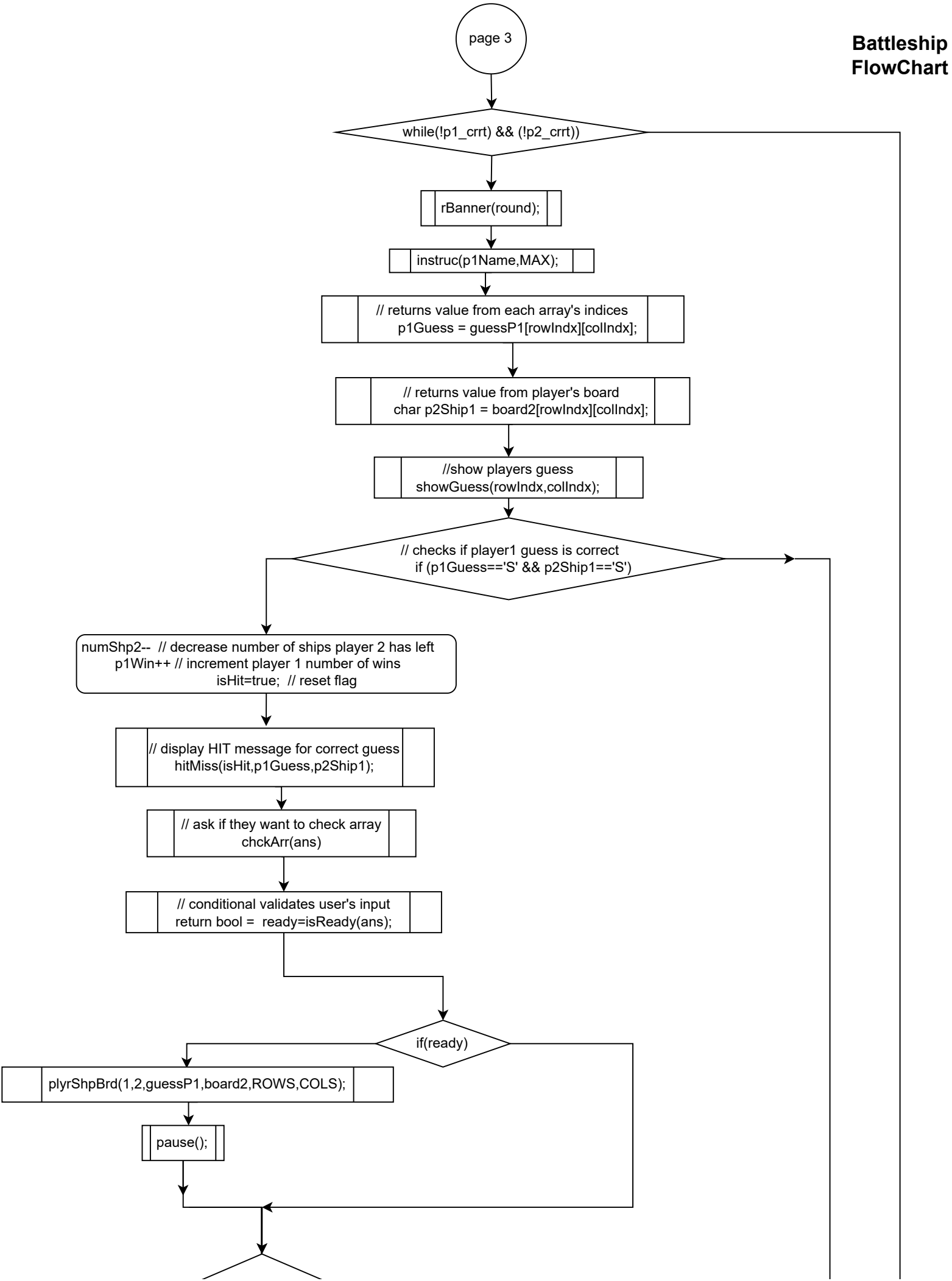
Battleship
FlowChart

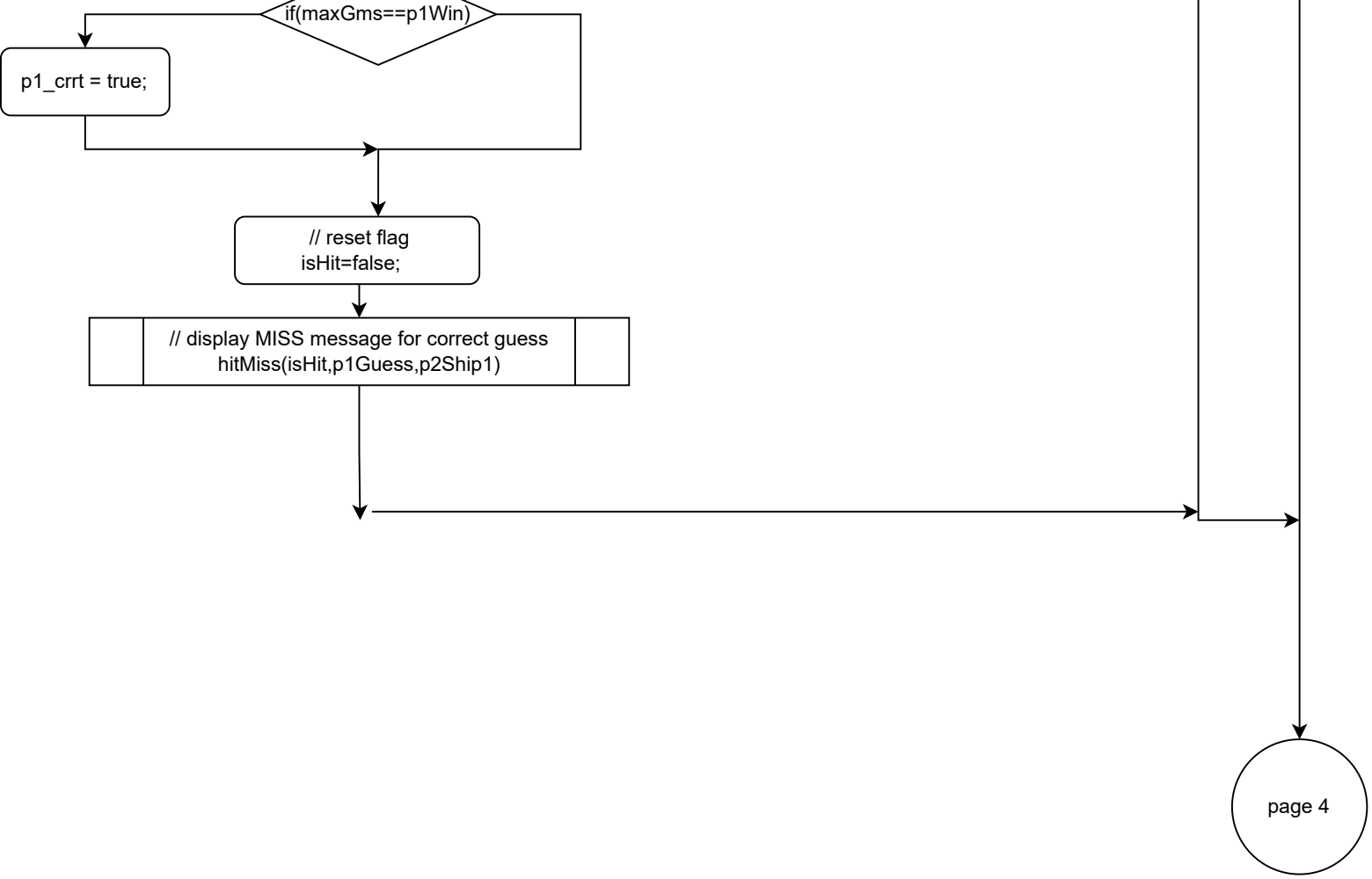


Battleship
FlowChart



Battleship FlowChart




if(maxGms==p1Win)
p1_crrt = true;
// reset flag
isHit=false;
// display MISS message for correct guess
hitMiss(isHit,p1Guess,p2Ship1)
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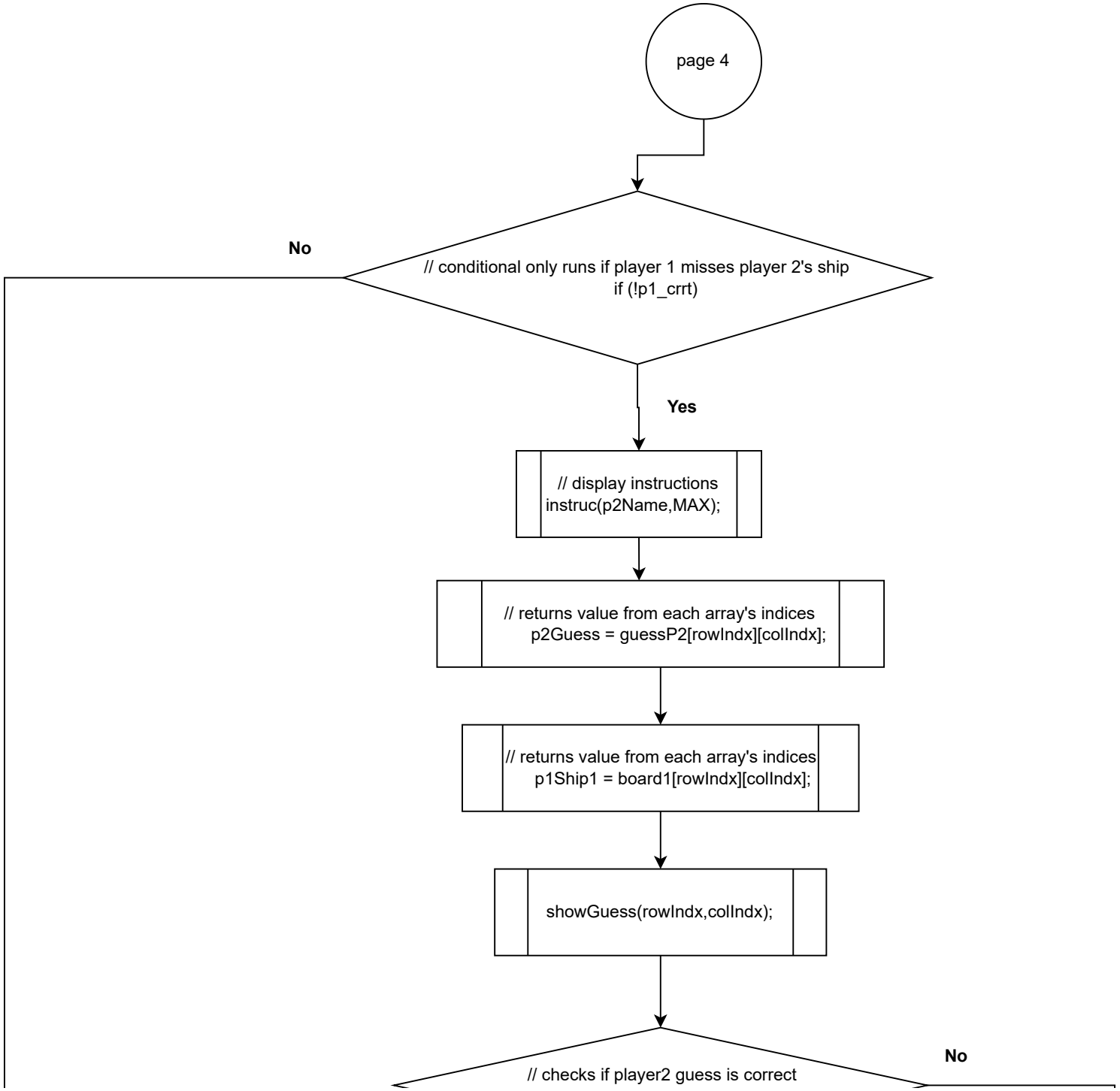
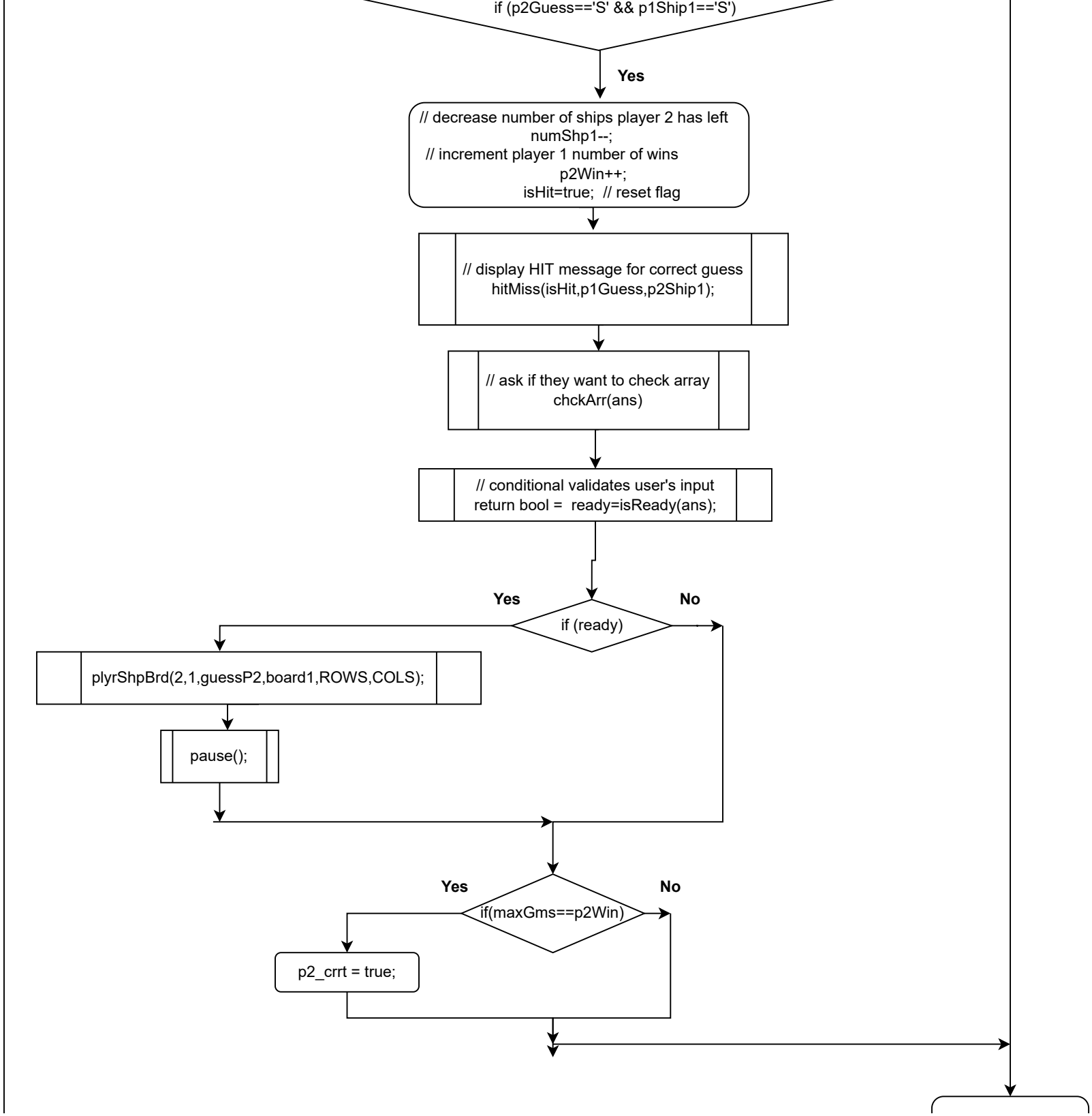
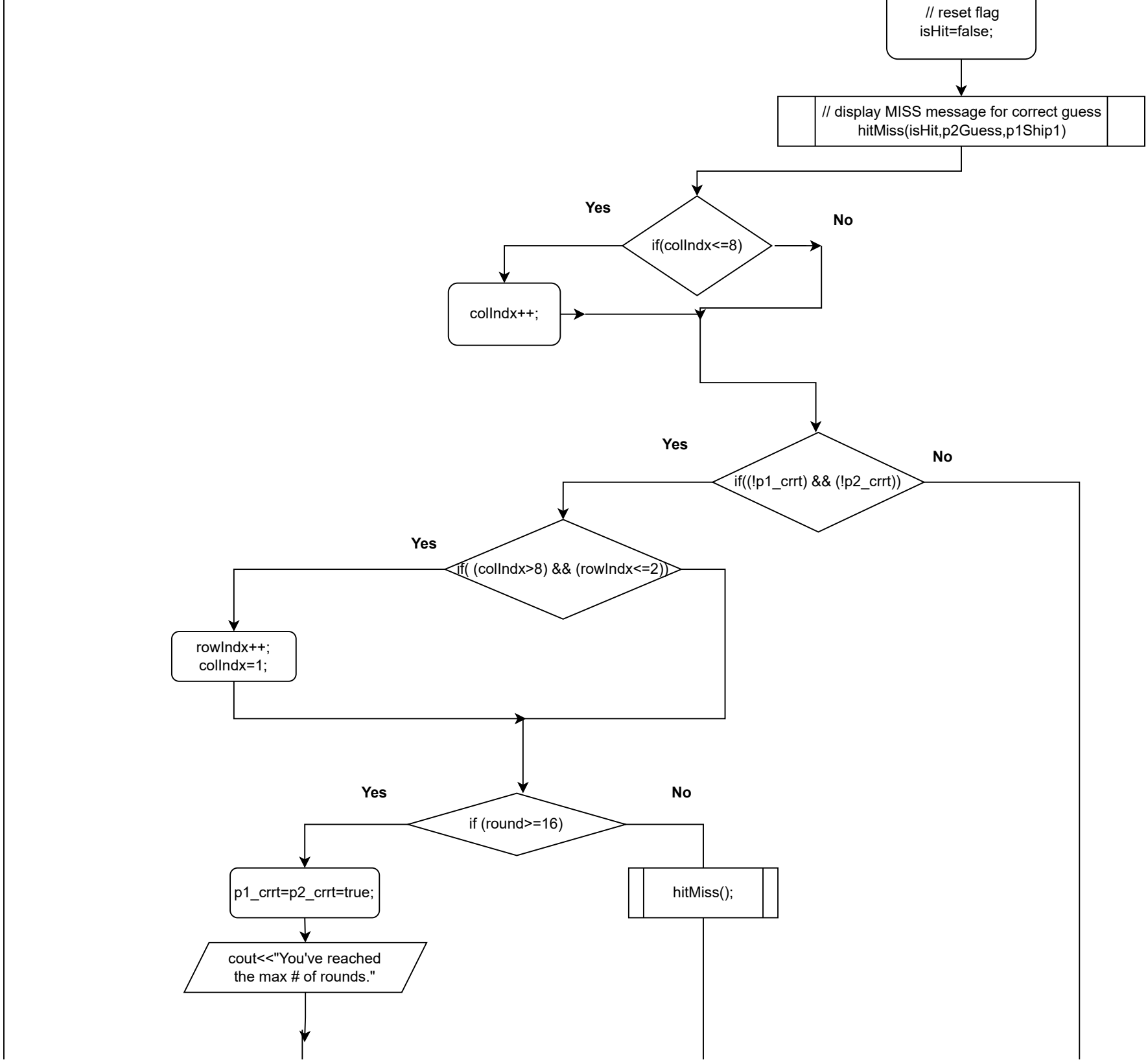
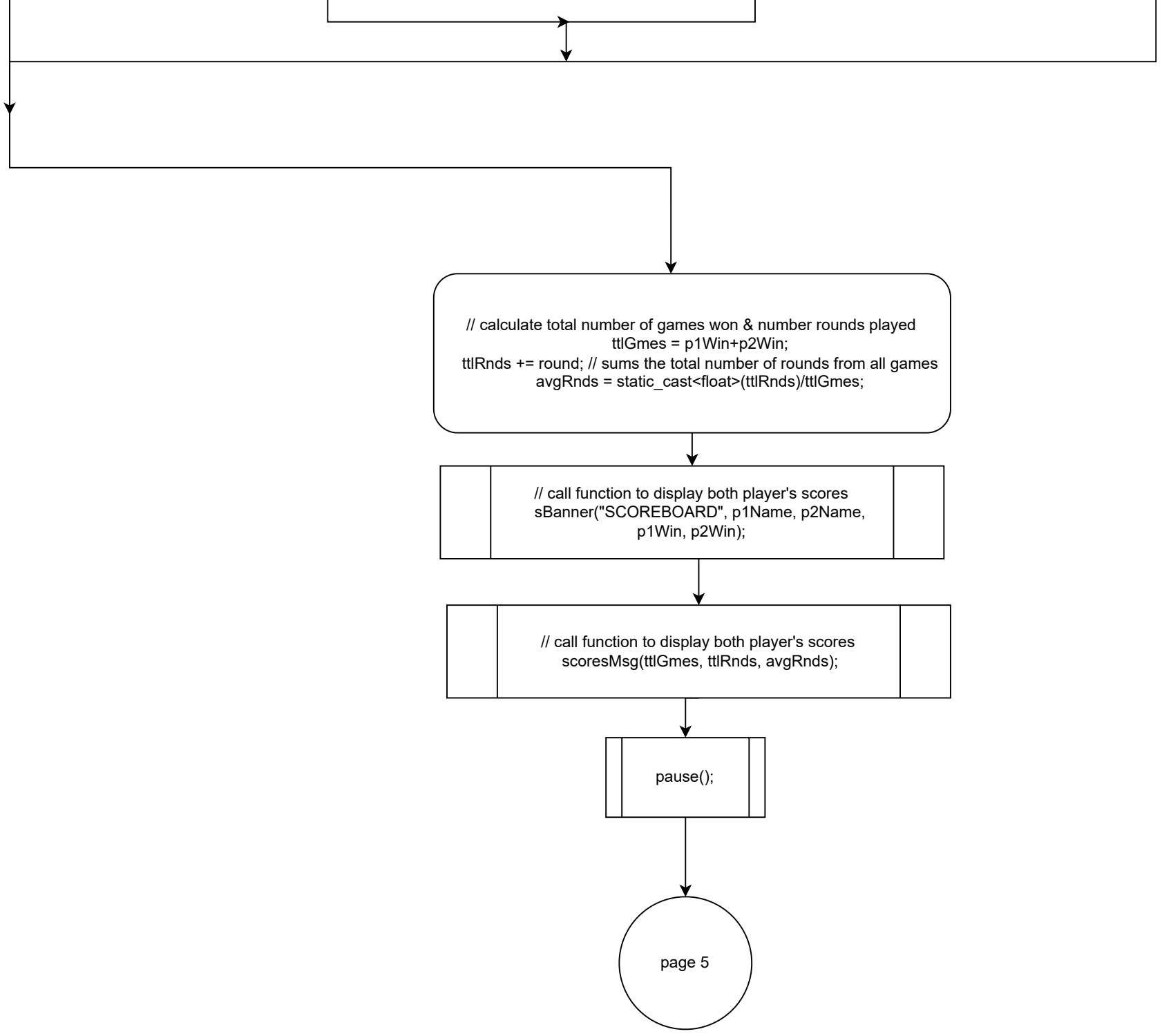
Battleship
FlowChart




if (p2Guess=='S' && p1Ship1=='S')
Yes
// decrease number of ships player 2 has left
numShp1--;
// increment player 1 number of wins
p2Win++;
isHit=true; // reset flag
// display HIT message for correct guess
hitMiss(isHit,p1Guess,p2Ship1);
// ask if they want to check array
chckArr(ans)
// conditional validates user's input
return bool = ready=isReady(ans);
Yes
No
if (ready)
plyrShpBrd(2,1,guessP2,board1,ROWS,COLS);
pause();
Yes
No
if(maxGms==p2Win)
p2_crrt = true;


// reset flag
isHit=false;
// display MISS message for correct guess
hitMiss(isHit,p2Guess,p1Ship1)
Yes
if(colIndx<=8)
No
colIndx++;
Yes
if((!p1_crrt) && (!p2_crrt))
No
Yes
if((colIndx>8) && (rowIndx<=2))
rowIndx++;
colIndx=1;
Yes
if (round>=16)
No
p1_crrt=p2_crrt=true;
hitMiss();
cout<<"You've reached
the max # of rounds."


// calculate total number of games won & number rounds played
ttlGmes = p1Win+p2Win;
ttlRnds += round; // sums the total number of rounds from all games
avgRnds = static_cast<float>(ttlRnds)/ttlGmes;
// call function to display both player's scores
sBanner("SCOREBOARD", p1Name, p2Name,
p1Win, p2Win);
// call function to display both player's scores
scoresMsg(ttlGmes, ttlRnds, avgRnds);
pause();
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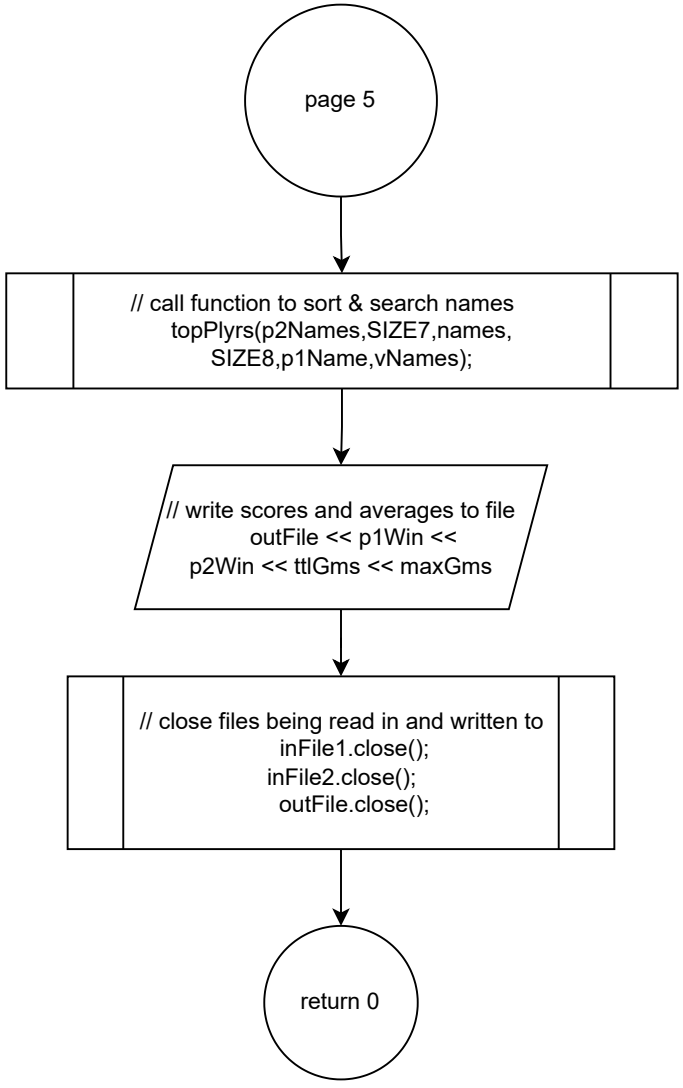
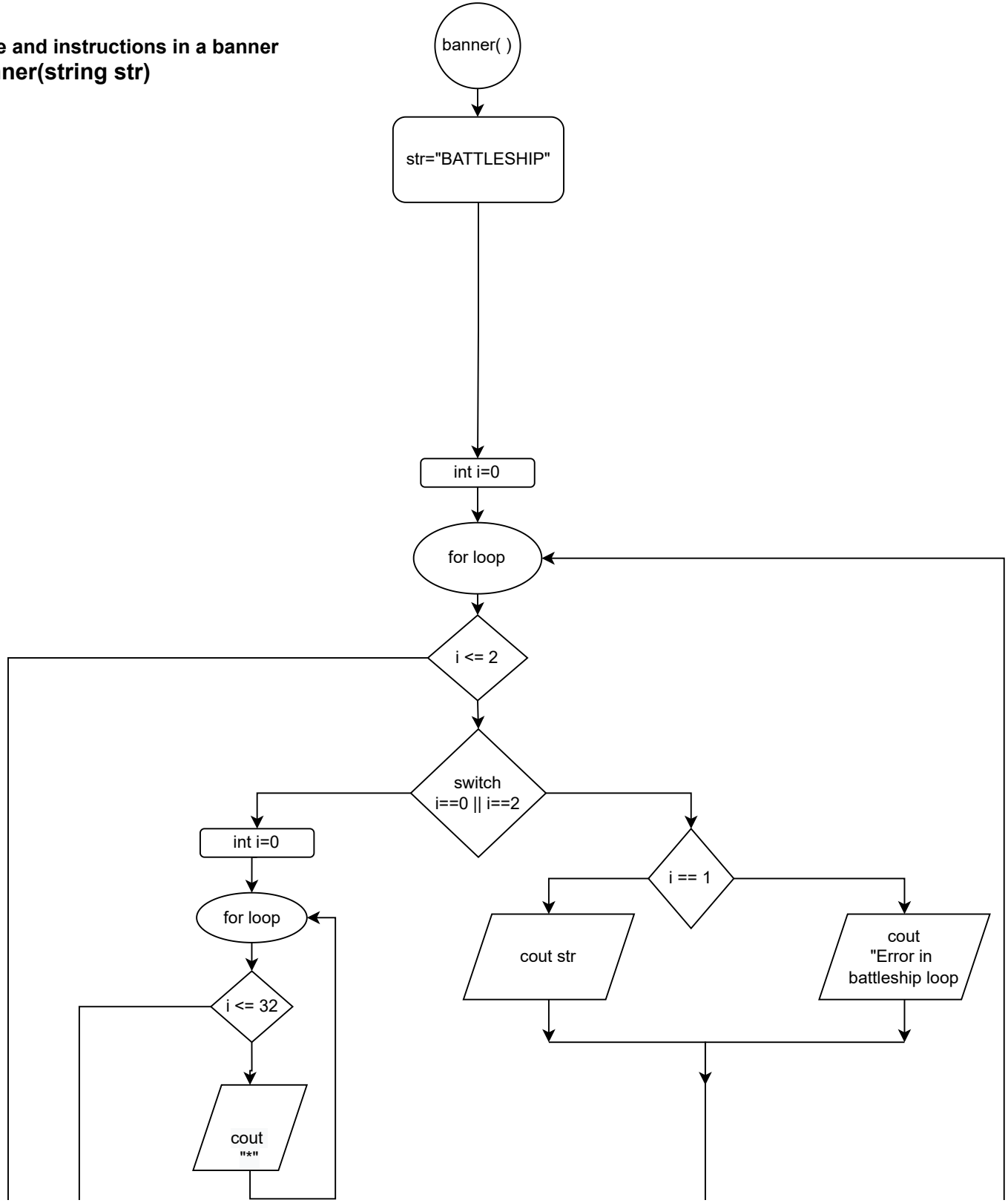
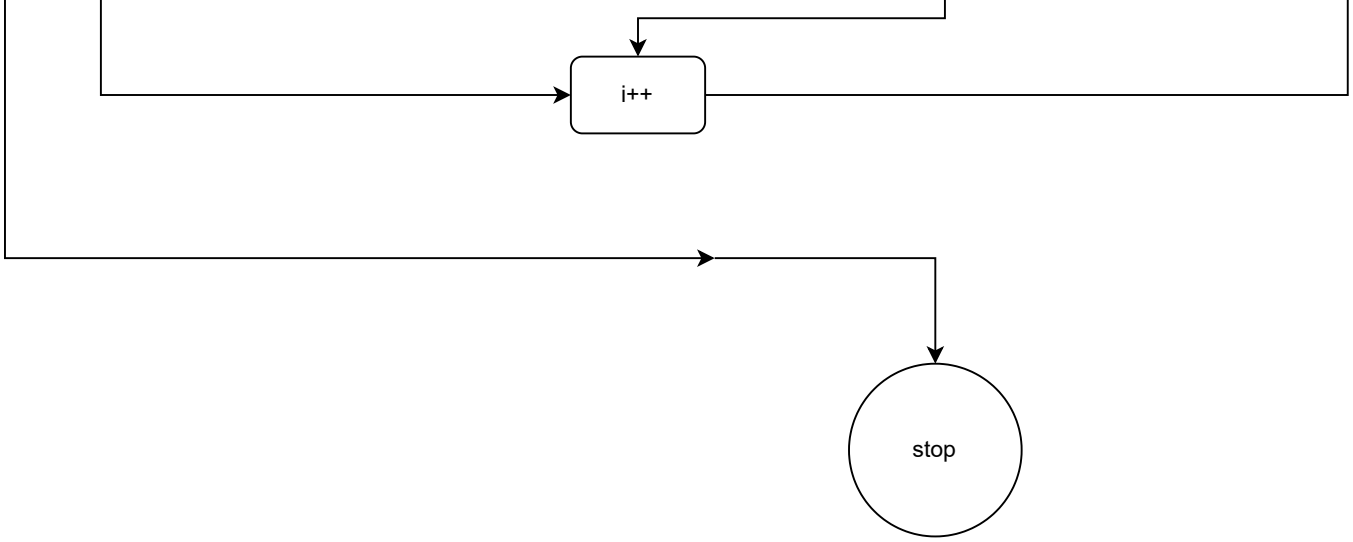
Battleship
FlowChart

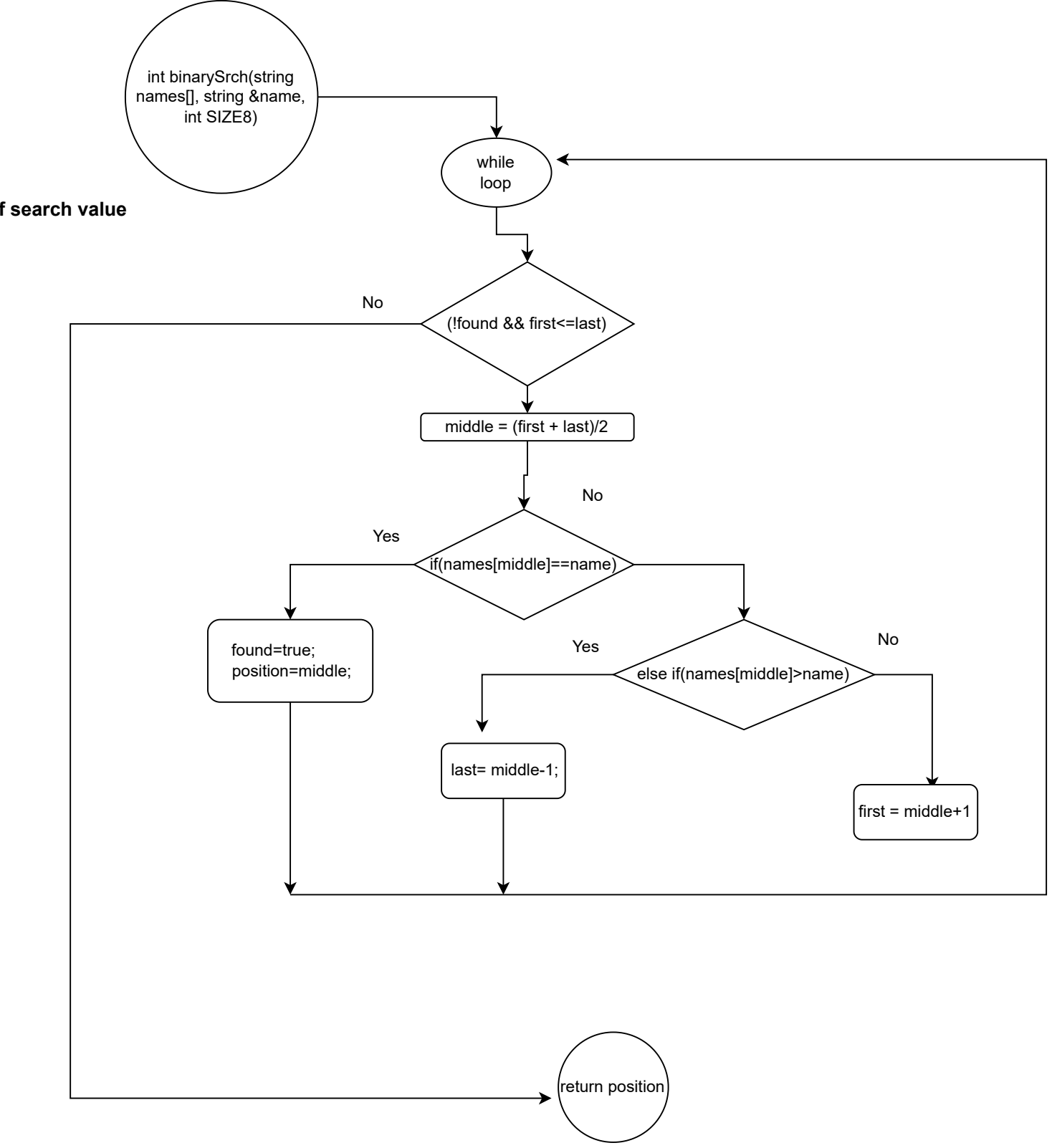


// displays game's name and instructions in a banner
void banner(string str)

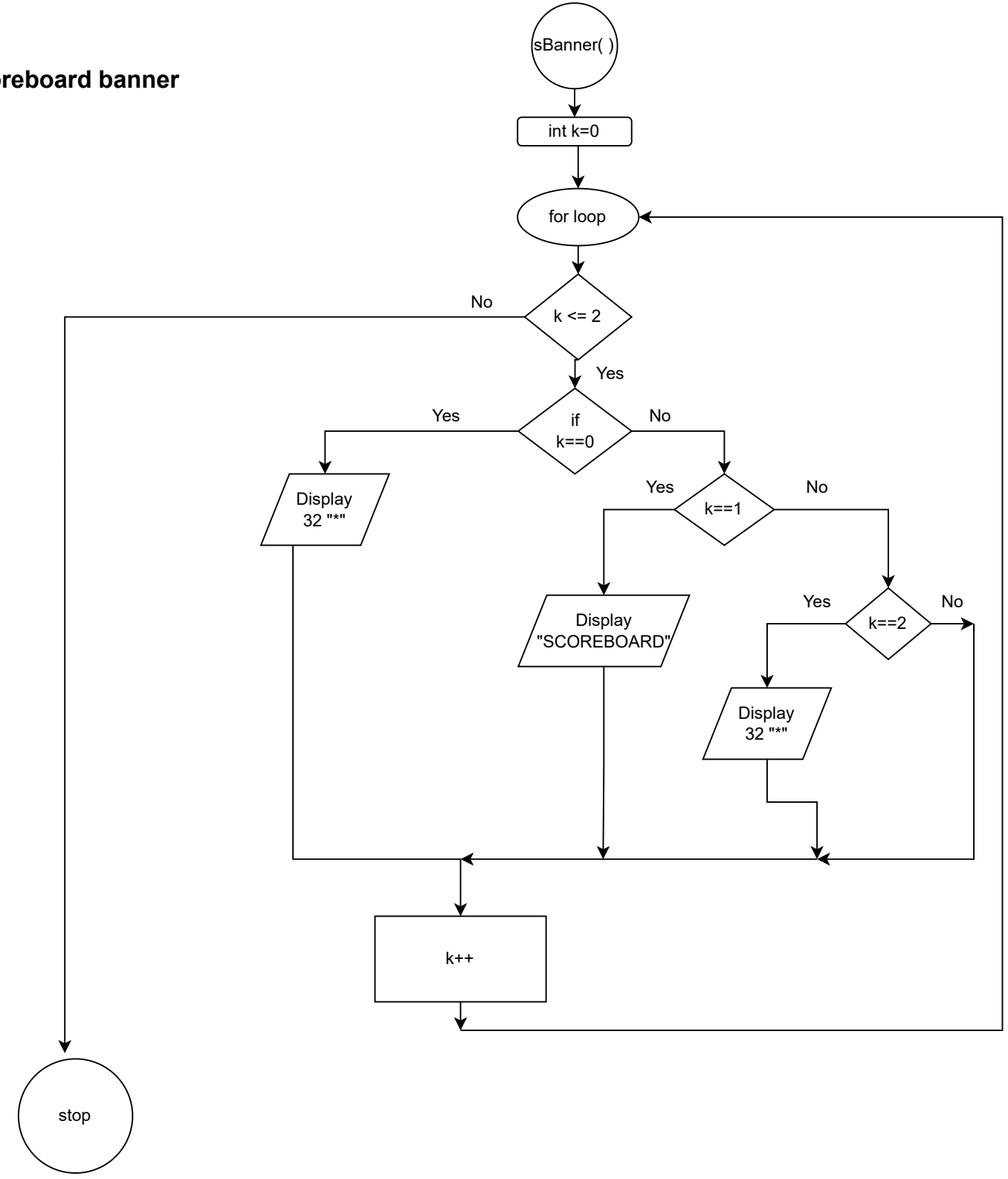



i++
stop

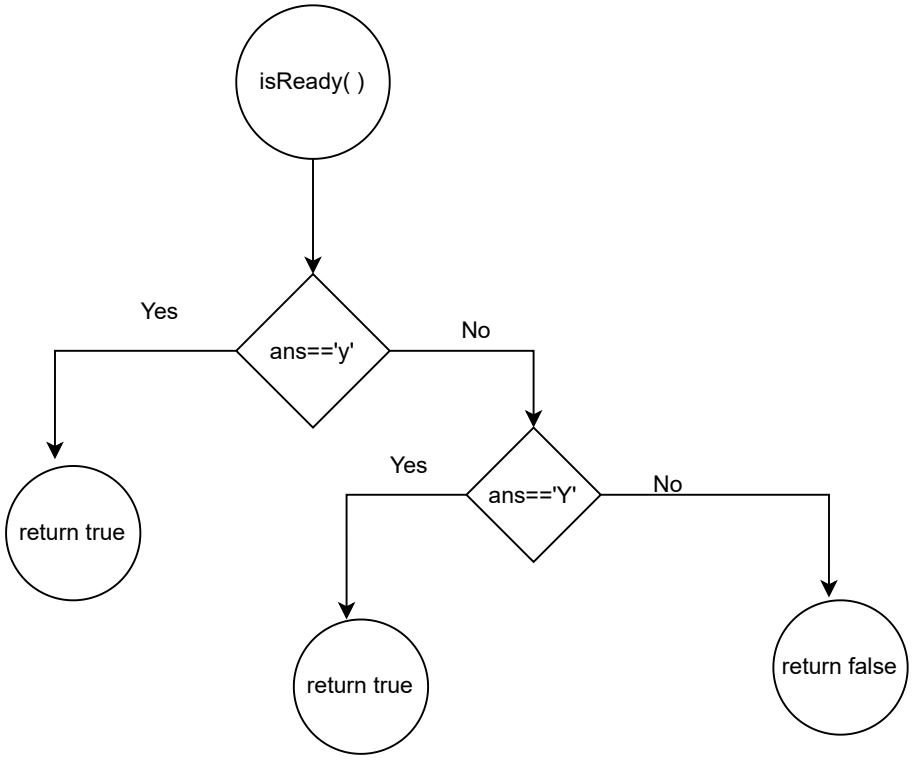
returns index position of search value



Scoreboard banner



bool isReady(char ans)

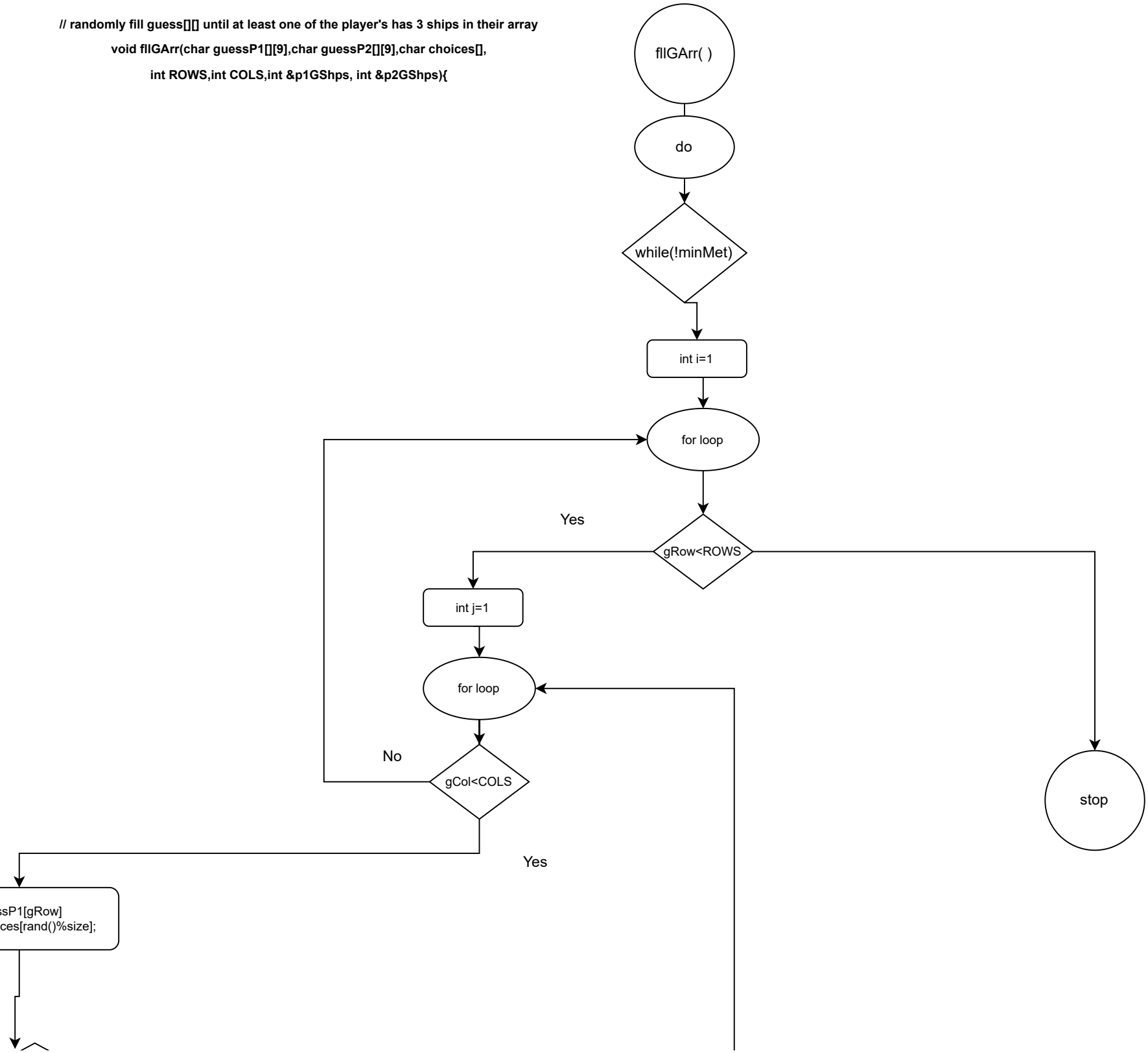


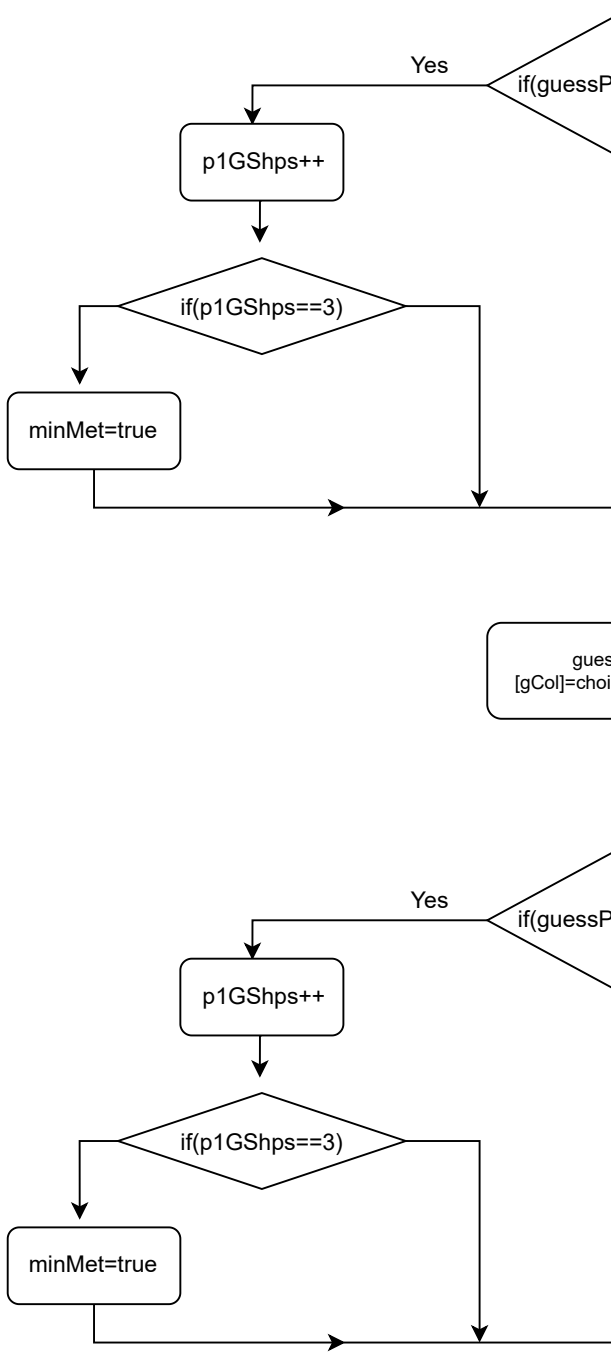
gues
[gCol]=choi

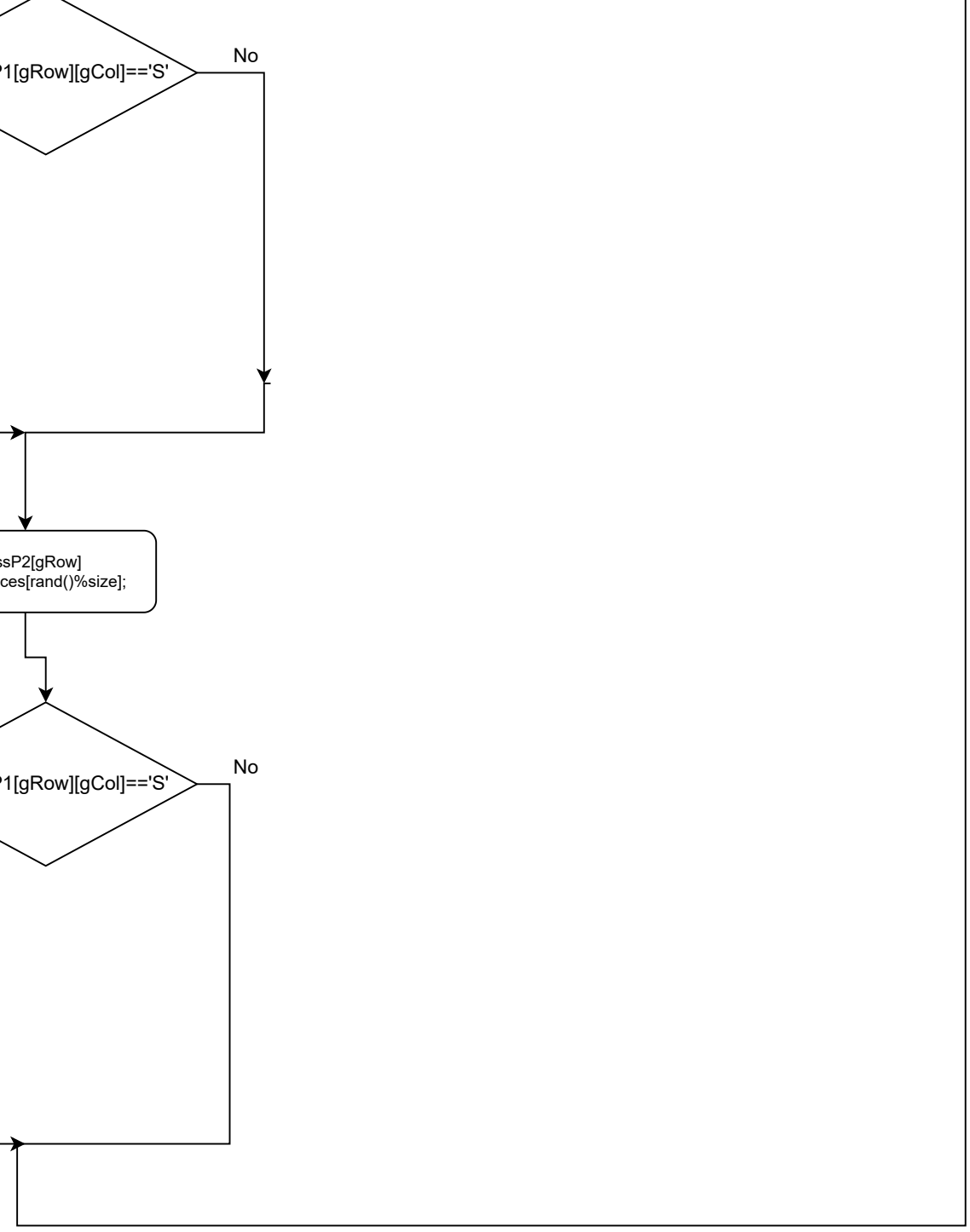
// randomly fill guess[][] until at least one of the player's has 3 ships in their array

void fllGArr(char guessP1[][9],char guessP2[][9],char choices[],

int ROWS,int COLS,int &p1GShps, int &p2GShps){




Yes
if(guessP
p1GShps++
if(p1GShps==3)
minMet=true
gues
[gCol]=choi
Yes
if(guessP
p1GShps++
if(p1GShps==3)
minMet=true


No
1[gRow][gCol]=='S'
ssP2[gRow]
ces[rand()%size];
No
1[gRow][gCol]=='S'