8Queen Maximum Score

// In Practice, You should use the statndard input/output

// in order to receive a score properly.

// Do not use file input and output. Please be very careful.

#include<iostream>

using namespace std;

int Arr[8][8];

int check[8][8];

int nhonhat = 0;

int vitri[92][8];

int dem = 0 ;

void Dat(int hang){

if(hang == 8){

int a = 0;

for(int i = 0; i < 8; i++)

for(int j = 0; j < 8; j++){

if(check[i][j]==1){

vitri[dem][a++]=j;

break;

}

}

dem++;

}

else{

for(int cot = 0; cot < 8; cot++){

bool flag = true;

if(check[hang][cot] == 0){

for (int i = 0 ; i < hang; i++){

if(check[i][cot] == 1){

flag = false;

break;

}

}

int x = hang;

int y = 1;

while(flag && x > 0){

x--;

if(((cot + y) < 8 && check[x][cot + y] == 1) || ((cot - y) >= 0 && check[x][cot - y] == 1)){

flag = false;

break;

}

y++;

}

if(flag){

check[hang][cot] = 1;

Dat(hang + 1);

check[hang][cot] = 0;

}

}

}

}

}

int main(int argc, char\*\* argv)

{

int test\_case;

int T;

int Answer;

ios::sync\_with\_stdio(false);

/\*

The freopen function below opens input.txt in read only mode and

sets your standard input to work with the opened file.

When you test your code with the sample data, you can use the function

below to read in from the sample data file instead of the standard input.

So. you can uncomment the following line for your local test. But you

have to comment the following line when you submit for your scores.

\*/

freopen("Text.txt", "r", stdin);

cin >> T;

/\*

Read each test case from standard input.

\*/

for(int i = 0; i < 8; i++)

for(int j = 0; j < 8; j++)

check[i][j] = 0;

Dat(0);

for(test\_case = 1; test\_case <= T; ++test\_case)

{

Answer = 0;

int N = 0;

cin >> N;

/////////////////////////////////////////////////////////////////////////////////////////////

/\*

Please, implement your algorithm from this section.

\*/

/////////////////////////////////////////////////////////////////////////////////////////////

cout << "Case #" << test\_case << endl;

for(int dem = 0; dem < N; dem++){

nhonhat = 0;

for(int i = 0; i < 8; i++)

for(int j = 0; j < 8; j++)

cin >> Arr[i][j];

int max = 0;

int tong = 0;

int x=0;

while(x < 92){

tong = 0;

for(int i = 0; i < 8; i++){

tong = tong + Arr[i][vitri[x][i]];

}

x++;

if(tong > max)

max = tong;

}

cout << max << endl;

}

// Print the answer to standard output(screen).

}

return 0;//Your program should return 0 on normal termination.

}