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REC-CIS

GE23131-Programming Using C-2024

|  |  |
| --- | --- |
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Monday, 18 November 2024, 3:27 PM |
| **Duration** | 35 days 2 hours |

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Question **1**

Correct

Marked out of 3.00

Flag question

Question text

Write a program that prints a simple chessboard.

Input format:

The first line contains the number of inputs T.

The lines after that contain a different values for size of the chessboard

Output format:

Print a chessboard of dimensions size \* size. Print a Print W for white spaces and B for black spaces.

Input:

2

3

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer:(penalty regime: 0 %)

#include <stdio.h>

int main()

{

int T,size,t;

scanf("%d",&T);

for (t=0; t<T;t++)

{

scanf("%d",&size);

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

{

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

{

if((i+j)%2==0)

{

printf("W");

}

else

{

printf("B");

}

}

printf("\n");

}

}

return 0;

}

|  | **Input** | **Expected** | **Got** |  |
| --- | --- | --- | --- | --- |
|  | 2  3  5 | WBW  BWB  WBW  WBWBW  BWBWB  WBWBW  BWBWB  WBWBW | WBW  BWB  WBW  WBWBW  BWBWB  WBWBW  BWBWB  WBWBW |  |

Passed all tests!

Question **2**

Correct

Marked out of 5.00

Flag question

Question text

Let’s print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input / Output

Input:

2

2 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer:(penalty regime: 0 %)

#include <stdio.h>

int main()

{

int T,N;

char ch;

scanf("%d",&T);

while(T--)

{

scanf("%d %c", &N, &ch);

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

{

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

{

if(ch=='W')

{

if((i+j)%2==0)

printf("W");

else

printf("B");

}

else{

if((i+j)%2==0)

printf("B");

else

printf("W");

}

}

printf("\n");

}

}

}

|  | **Input** | **Expected** | **Got** |  |
| --- | --- | --- | --- | --- |
|  | 2  2 W  3 B | WB  BW  BWB  WBW  BWB | WB  BW  BWB  WBW  BWB |  |

Passed all tests!

Question **3**

Correct

Marked out of 7.00

Flag question

Question text

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be :

10203010011012

\*\*4050809

\*\*\*\*607

If N= 4, then pattern will be:

1020304017018019020

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*\*10011

Constraints

2 <= N <= 100

Input Format

First line contains T, the number of test cases

Each test case contains a single integer N

Output

First line print Case #i where i is the test case number

In the subsequent line, print the pattern

Test Case 1

3

3

4

5

Output

Case #1

10203010011012

\*\*4050809

\*\*\*\*607

Case #2

1020304017018019020

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*\*10011

Case #3

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*\*13014017018

\*\*\*\*\*\*\*\*15016

Answer:(penalty regime: 0 %)

#include <stdio.h>

int main()

{

int t,n,x,y,z=1,i,ans,c;

scanf("%d",&t);

while(z<=t)

{

scanf("%d",&n);

printf("Case #%d\n",z);

y=1;

i=1;

c=0;

while (y<=n)

{

x=1;

ans=(n\*n);

ans=ans-c;

while(x<=2\*n)

{

if(x<=n)

{

if(x<y)

printf("\*\*");

else if(x<=n)

{

printf("%d",i\*10);

i++;

}

}

else

{

if((x+y)==(2\*n)+1)

{

printf("%d",(ans+y));

ans++;

c++;

}

else if(x+y<=(2\*n)+1)

{

printf("%d",(ans+y)\*10);

ans++;

c++;

}

}

x++;

}

y++;

printf("\n");

}

z++;

}

return 0;

}

|  | **Input** | **Expected** | **Got** |  |
| --- | --- | --- | --- | --- |
|  | 3  3  4  5 | Case #1  10203010011012  \*\*4050809  \*\*\*\*607  Case #2  1020304017018019020  \*\*50607014015016  \*\*\*\*809012013  \*\*\*\*\*\*10011  Case #3  102030405026027028029030  \*\*6070809022023024025  \*\*\*\*10011012019020021  \*\*\*\*\*\*13014017018  \*\*\*\*\*\*\*\*15016 | Case #1  10203010011012  \*\*4050809  \*\*\*\*607  Case #2  1020304017018019020  \*\*50607014015016  \*\*\*\*809012013  \*\*\*\*\*\*10011  Case #3  102030405026027028029030  \*\*6070809022023024025  \*\*\*\*10011012019020021  \*\*\*\*\*\*13014017018  \*\*\*\*\*\*\*\*15016 |  |

Passed all tests!

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