ROLL NO : 241001045

NAME: G.DEVASENA

REC-CIS

# GE23131-Programming Using C-2024

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| --- | --- |
| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Thursday, 28 November 2024, 11:28 AM |
| **Duration** | 25 days 6 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 n,size,i,j,count;

scanf("%d",&n);

while(n--)

{

scanf("%d",&size);

count = 0;

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

{

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

{

if(++count%2 == 1)

printf("W");

else

printf("B");

}

if(size%2 == 0)

count++;

printf("\n");

}

}

}

#### Feedback

|  | **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,d,i,i1,i2,z,o;

char c,s;

scanf("%d",&t);

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

{

scanf("%d %c",&d,&s);

for(i1=0;i1<d;i1++)

{

z=(s=='W')?0:1;

o=(i1%2 == z)?0:1;

for(i2=0;i2<d;i2++)

{

c=(i2%2 == o)?'W':'B';

printf("%c",c);

}

printf("\n");

}

}

return 0;

}

#### Feedback

|  | **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 n,v,p3,c,in,i,i1,i2,t,ti;

scanf("%d",&t);

for(ti=0;ti<t;ti++){

v=0;

scanf("%d",&n);

printf("Case #%d\n",ti+1);

for(i=0;i<n;i++){

c=0;

if(i>0){

for(i1=0;i1<i;i1++)

printf("\*\*");

}

for(i1=i;i1<n;+i1++){

if(i>0)

c++;

printf("%d0",++v);

}

if(i==0){

p3=v+(v\*(v-1))+1;

in=p3;

}

in=in-c;

p3=in;

for(i2=i;i2<n;i2++){

printf("%d",p3++);

if(i2!=n-1)

printf("0");

}

printf("\n");

}

}

}

#### Feedback

|  | **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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