

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 1 December 2024, 11:46 PM
Duration	21 days 17 hours

Question 1

Correct

Marked out of 3.00

Flag question

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {int v;
4 scanf("%d",&v);
5 while(v>0)
6 {int x;
7 scanf("%d",&x);
8 if(x<0){
9     x=-x;
10 }
11 char a='W';
12 for(int i=0;i<x;i++)
13 {for(int j=0;j<x;j++)
14 {printf("%c",a);
15 if(a=='W')
16 a='B';
17 else
18 a='W';
19 }
20 printf("\n");
21 if(x%2==0){
22     if(a=='W')
23     a='B';
24     else
25     a='W';
26 }
27 }
28 v--;
29 }
30 }
```

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	

Passed all tests! ✓

Marked out of
5.00

🚩 [Flag question](#)

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 %)

```
1 #include<stdio.h>
2 int main()
3 {int v;
4 scanf("%d",&v);
5 while(v!=0)
6 {char a;
7 int x;
8 scanf("%d %c",&x,&a);
9 for(int i=0;i<x;i++)
10 {for(int i=0;i<x;i++)
```

```
13     a = b ;
14 }
15 else
16 {a = 'W';
17 }
18 }
19 if((x%2)==0)
20 {if(a=='W')
21 a='B';
22 else
23 a='W';
24 }
25 printf("\n");
26 }
27 v--;
28 }
29 }
```

	Input	Expected	Got	
✓	2	WB	WB	✓
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

Passed all tests! ✓

Question 3

Correct

Marked out of 7.00

Flag question

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

*****10011

Constraints

$2 \leq N \leq 100$

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

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```

1  #include<stdio.h>
2  int main()
3  {int v,c=0;
4  scanf("%d",&v);
5  while(v!=0)
6  {c++;
7  int a;
8  scanf("%d",&a);
9  int s1=10,s2=(a*a*10)+10;
10 printf("Case #%d\n",c);
11 for(int i=0;i<a;i++)
12 {for(int j=0;j<i;j++){
13     printf("**");
14 }
15 for(int j=0;j<a-i;j++)
16 {printf("%d",s1);
17 s1+=10;
18 }
19 for(int j=0;j<a-i;j++)
20 {if((j+1)==(a-i))
21 {printf("%d",((s2+(j*10))/10);
22 }
23 else
24 {printf("%d",s2+(j*10));
25 }
26 }
27 s2--(a-i)*10;
28 s2+=10;
29 printf("\n");
30 }
31 v--;
32 }
33 }
```

	Input	Expected
✓	3	Case #1
	3	10203010011012
	4	**4050809
	5	****607
		Case #2
		1020304017018019020
		**50607014015016

Case ID		
102030405026027028029030		
**6070809022023024025		
***10011012019020021		
*****13014017018		
*****15016		

Passed all tests! ✓

Finish review