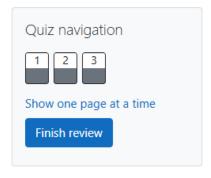
GE23131-Programming Using C-2024



Status Finished Started Monday, 23 December 2024, 5:33 PM Completed Tuesday, 3 December 2024, 10:02 AM **Duration** 20 days 7 hours Question 1 Write a program that prints a simple chessboard. Correct Marked out of 3.00 Input format: Flag question 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
WBWBWB
WBWBWB
WBWBWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 √ {
       int t,d,i=0,i1,i2,o;
4
5
        char c;
       scanf("%d",&t);
6
7
        while(i<t)
8 ,
9
           scanf("%d",&d);
10
           i1=0;
           while(i1<d)
11
12 ,
13
               0=1;
14
               i2=0;
15
               if(i1%2==0)
16
17
                   0=0;
18
19
               while(i2<d)
20 ,
                   c='B';
21
22
                   if(i2%2==o)
23 •
                       c='W';
24
25
                   printf("%c",c);
26
27
                   i2++;
28
29
               i1+=1;
30
               printf("\n");
31
32
           i=i+1;
33
34 }
```

	Input	Expected	Got	
~	2	WBW	WBW	~
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		WDWDW	WDWDW	

Passed all tests! 🗸

Question **2**Correct
Marked out of 5.00

Flag question

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 %)

```
1 #include<stdio.h>
 2 int main()
 3 √ {
        int t,d,i,i1,i2,o,z;
 4
 5
        char c,s;
        scanf("%d",&t);
 6
        for(i=0;i<t;i++)</pre>
 7
 8 ,
 9
            scanf("%d %c",&d,&s);
            for(i1=0;i1<d;i1++)</pre>
10
11 •
12
                Z=(S=='W') ? 0:1;
13
                o=(i1\%2==z) ? 0:1;
14
                for(i2=0;i2<d;i2++)</pre>
15 •
16
                    c=(i2%2==o) ? 'W' : 'B';
                    printf("%c",c);
17
18
19
                printf("\n");
20
21
22
        return 0;
23 }
```

	Input	Expected	Got	
~	2	WB	WB	~
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BMB	BMB	

Passed all tests! 🗸

Question $\bf 3$

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

**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

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 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()
2
3 √ {
4
        int t,ti,n;
5
        scanf("%d",&t);
6
        for(ti=0;ti<t;ti++)</pre>
7 ,
8
            scanf("%d",&n);
            printf("Case #%d\n",ti+1);
9
10
            int next=1,val=1;
11
            for(int i=n;i>=1;i--)
12 ,
13
                val = next;
                for(int j=1;j<=2*n-(n-i);j++)
14
15 ,
16
                    if(j<=(n-i))
17 ,
                        printf("**");
18
19
                    else if(j==n)
20
21 1
                        printf("%d0",val++);
22
23
                        next=val;
24
                        val =val +(i-1)*(i);
25
26
                    else if(j==(2*n-(n-i)))
27 1
                        printf("%d",val++);
28
29
30 1
                    else{
                        printf("%d0",val++);
31
32
33
34
                printf("\n");
35
36
37 }
```

	Input	Expected	Got	
~	3	Case #1	Case #1	~
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	

5060/014015016 **5060/014015016 **809012013 ****809012013 ******10011 ******10011 Case #3 Case #3 102030405026027028029030 102030405026027028029030 **6070809022023024025 **6070809022023024025 ****10011012019020021 ****10011012019020021 *****13014017018 ******13014017018 *******15016 *******15016 Passed all tests! <

Finish review