

GE23131-Programming Using C-2024

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 6 December 2024, 12:57 PM
Duration	17 days 4 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
BWBWB
WBWBW

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int T,d,i=0,i1,i2,o;
5     char c;
6     scanf("%d",&T);
7     while(i<T)
8     {
9         scanf("%d",&d);
10        i1=0;
11        while(i1<d)
12        {
13            o=1;
14            i2=0;
15
16            if(i1%2==0)
17            {
18                o=0;
19            }
20            while(i2<d)
21            {
22                c='B';
23                if(i2%2==o)
24                {
25                    c='W';
26                }
27                printf("%c",c);
28                i2++;
29            }
30            i1+=1;
31            printf("\n");
32        }
33        i=i+1;
34    }
35 }
36
37
38
39
40
41
42
```

	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! ✓

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 {
4     int T,d,i,i1,i2,o,z;
5     char c,s;
6     scanf("%d",&T);
7     for(i=0;i<T;i++)
8     {
9         scanf("%d %c",&d,&s);
10        for(i1=0;i1<d;i1++)
11        {
12            z=(s=='W')?0:1;
13            o=(i1%2==z) ? 0 : 1;
14            for(i2=0;i2<d;i2++)
15            {
16                c=(i2%2==o) ? 'W' : 'B';
17                printf("%c",c);
18            }
19            printf("\n");
20        }
21    }
22    return 0;
23 }
24
25
26
27
```

	Input	Expected	Got	
✓	2	WB	WB	✓
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBWB	WBWB	
		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
**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 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,v,p3,c,in,i,i1,i2,t;
5     scanf("%d",&t);
6     for(ti=0;ti<t;ti++)
7     {
8         v=0;
9         scanf("%d",&n);
10        printf("Case #%d \n",ti+1);
11        for(i=0;i<n;i++)
12        {
13            c=0;
14            if(i>0)
15            {
16                for(i1=0;i1<i;i1++)
17                    printf("*");
18            }
19            for(i1=i;i1<n;i1++)
20            {
21                if(i>0) c++;
22                printf("%d0",c);
23            }
24            if(i==0)
25            {
26                p3=v+(v*(v-1));
27                in=p3;
28            }
29            in=in-c;
30            p3=in;
31            for(i2=i;i2<n;i2++)
32            {
33                printf("%d",p3);
34                if(i2!=n-1)
35                    printf("0");
36            }
37            printf("\n");
38        }
39    }
40 }
41
42
43
44
45
46
47
```

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

Passed all tests! ✓

Finish review

Quiz navigation