

GE23131-Programming Using C-2024

Quiz navigation



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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 20 December 2024, 9:50 AM
Duration	3 days 7 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             if(i1%2==0)
16             {
17                 o=0;
18             }
19             while(i2<d)
20             {
21                 c='B';
22                 if(i2%2==o)
23                 {
24                     c='W';
25                 }
26                 printf("%c",c);
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	

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

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,a,c,d;
5     char b,e;
6     scanf("%d",&T);
7     for(int i=0;i<T;i++)
8     {
9         scanf("%d %c",&a,&b);
10        for(int j=0;j<a;j++)
11        {
12            c=(b=='W')?0:1;
13            d=(j%2==c)?0:1;
14            for(int k=0;k<a;k++)
15            {
16                e=(k%2==d)?'W':'B';
17                printf("%c",e);
18            }
19            printf("\n");
20        }
21    }
22 }
```

	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

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

$2 \leq N \leq 100$

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

7

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 no_of_test,case_no,a,b,c,d;
5      scanf("%d",&no_of_test);
6      for(int i=1;i<=no_of_test;i++){
7          a=0;
8          scanf("%d",&case_no);
9          printf("Case #%d\n",i);
10         for(int j=0;j<case_no;j++){
11             b=0;
12             if(j>0){
13                 for(int k=0;k<j;k++){
14                     printf("***");
15                 }
16             }
17             for(int l=j;l<case_no;l++){
18                 if(j>0)

```

```

18     printf("%d0", ++a);
19 }
20
21 if(j==0){
22     c=a+(a*(a-1))+1;
23     d=c;
24 }
25 d=d-b;
26 c=d;
27 for(int m=j;m<case_no;m++){
28     printf("%d", c++);
29     if(m!=case_no-1)
30         printf("0");
31 }
32 printf("\n");
33 }
34 }
35 }

```

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

Passed all tests! ✓

Finish review