

GE23131-Programming Using C-2024

Quiz navigation



Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 29 November 2024, 12:50 PM
Duration	24 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 n,size,i,j,count;
5     scanf("%d",&n);
6     while(n--){
7         scanf("%d",&size);
8         count=0;
9         for(i=0;i<size;i++){
10             for(j=0;j<size;j++){
11                 if(++count%2==1)
12                     printf("W");
13                 else
14                     printf("B");
15             }
16             if(size%2==0)
17                 count++;
18             printf("\n");
19         }
20     }
21 }
```

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

		WBWBW	WBWBW	
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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,n,i,j;
5     char start,other;
6     scanf("%d",&t);
7     while(t--){
8         scanf("%d %c",&n,&start);
9         if(start=='W' || start=='w'){
10             other='B';
11         }else{
12             other='W';
13         }
14         for(i=0;i<n;i++){
15             for(j=0;j<n;j++){
16                 if((i+j)%2==0){
17                     printf("%c",start);
18                 }else{
19                     printf("%c",other);
20                 }
21             }printf("\n");
22         }
23     }
24 }
25
```

	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

Decode the logic and print the Pattern that corresponds to given input.

7.00

🚩 [Flag question](#)

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
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 t;
5     scanf("%d",&t);
6     for(int x=1;x<=t;x++){
7         printf("Case #%d\n",x);
8         int n;
9         scanf("%d",&n);
10        int f=1,b=n*(n+1);
11        for(int i=0;i<n;i++){
```

```

12  for(int k=0;k<2*i;k++){
13      printf("*");
14  }
15  printf("%d",f);
16  f++;
17  for(int j=2;j<=n-i;j++){
18      printf("0%d",f);
19      f++;
20  }
21  for(int l=b-(n-i)+1;l<=b;l++){
22      printf("0%d",l);
23  }
24  b-=n-i;
25  printf("\n");
26  }
27  }
28  return 0;
29  }

```

	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

