

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 13 December 2024, 9:27 AM
Duration	10 days 8 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     int T,size;
4     scanf("%d",&T);
5     while(T--){
6         scanf("%d",&size);
7         for(int i=0;i<size;i++){
8             for(int j=0;j<size;j++){
9                 if((i+j)%2==0){
10                     printf("W");
11                 }
12                 else
13                 {
14                     printf("B");
15                 }
16             }
17             printf("\n");
18         }
19     }
20 }
21
22 }
```

	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

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;
4     scanf("%d",&T);
5     while(T--){
6         int N;
7         char starchar;
8         scanf("%d %c",&N,&starchar);
9         char firstchar=starchar;
10        char secondchar=(starchar=='B')?'W':'B';
11        for (int i=0;i<N;i++){
12            for(int j=0;j<N;j++){
13                if((i+j)%2==0)
14                {
15                    printf("%c",firstchar);

```

```

16         }
17     } else{
18         printf("%c",secondchar);
19     }
20
21
22     }
23     printf("\n");
24 }
25 }
26 }

```

	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

**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      int t,n,x,y,z=1,i,ans,c;
4      scanf("%d",&t);
5      while(z<=t){
6          scanf("%d",&n);
7          printf("Case #%d\n",z);
8          y=1;
9          i=1;
10         c=0;
11         while(y<=n){
12             x=1;
13             ans=(n*n);
14             ans = ans-c;
15             while(x<=2*n){
16                 if(x<=n){
17                     if(x<y)
18                         printf("***");
19                     else if(x<=n){
20                         printf("%d",i*10);
21                         i++;
22                     }
23                 }
24                 else{
25                     if((x+y)==(2*n+1)){
26                         printf("%d", (ans+y));
27                         ans++;
28                         c++;
29                     }
30                     else if(x+y<=(2*n+1)){
31                         printf("%d", (ans+y)*10);
32                         ans++;
33                         c++;
34                     }
35                 }
36                 x++;
37             }
38             y++;
39             printf("\n");
40         }
41         z++;
42     }
43 }
44
45
46
47 }
```

	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	
		C--- #3	C--- #3	
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		***10011012019020021	***10011012019020021	
		*****13014017018	*****13014017018	
		*****15016	*****15016	

Passed all tests! ✓

Finish review