

# GE23131-Programming Using C-2024

Quiz navigation

1

2

3

Show one page at a time


Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 13 December 2024, 1:12 PM
Duration	10 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

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

**Answer:** (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main(){
3      int t;
4      scanf("%d",&t);
5      for(int y=1;y<=t;y++){
6          int rows;
7          scanf("%d",&rows);
8          for(int i=0;i<rows;i++){
9              for(int j=0;j<rows;j++){
10                 if((i+j)%2==0)
11                     printf("W");
12                 else
13                     printf("B");
14             }
15             printf("\n");
16         }
17     }
18     return 0;
19 }
```


	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

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      char c,s;
5      scanf("%d",&T);
6      for(i=0;i<T;i++)
7      {
8          scanf("%d %c",&d,&s);
9          for(i1=0;i1<d;i1++)
10         {
11             z = (s== 'W')? 0:1;
12             o = (i1 % 2 == z)? 0 : 1;
13             for(i2 = 0; i2 < d; i2++)
14             {
15                 c = (i2 % 2 == o)? 'W':'B';
16                 printf("%c",c);
17             }
```

```
21 | return 0 ;
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

 [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:

\*\*\*\*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

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,ti;
5     scanf("%d",&t);
6     for(ti = 0; ti < t;ti++){
7         v=0;
8         scanf("%d",&n);
9         printf("Case #%d\n",ti + 1);
10        for(i = 0 ; i<n;i++){
11            c = 0;
12            if(i > 0){
```

```
16         if(i > 0) c++;
17         printf("%d0",++v);
18     }
19     if(i==0){
20         p3 = v + (v*(v-1)) + 1;
21         in = p3;
22     }
23     in = in - c;
24     p3 = in;
25     for(i2 = i;i2 <n;i2++){
26         printf("%d",p3++);
27         if(i2 != n-1) printf("0");
28     }printf("\n");
29 }
30 }
31 }
```

	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	



Finish review