

GE23131-Programming Using C-2024

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Quiz navigation



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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 void printchessboard(int size)
3 {
4     for(int i=0;i<size;i++)
5     {
6         for(int j=0;j<size;j++)
7         {
8             if((i+j)%2==0)
9             {
10                printf("W");
11            }
12            else
13            {
14                printf("B");
15            }
16        }
17        printf("\n");
18    }
19 }
20
```

```
24 scanf("%d",&T);
25 int sizes[T];
26 for(int i=0;i<T;i++)
27 {
28     scanf("%d",&sizes[i]);
29 }
30 for(int i=0;i<T;i++)
31 {
32     printchessboard(sizes[i]);
33 }
34 }
35 return 0;
36 }
```

	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:

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 void printchessboard(int size,char startchar)
```

```
6         for(int j=0;j<size;j++)
7     {
8         if((i+j)%2==0)
9     {
10            printf("%c",startchar);
11        }
12
13        else
14    {
15        printf("%c",(startchar=='W')?'B':'W');
16    }
17    }
18    printf("\n");
19 }
20 }
21 int main()
22 {
23     int T;
24     scanf("%d",&T);
25     while(T--)
26     {
27         int N;
28         char startchar;
29         scanf("%d %c",&N,&startchar);
30         printchessboard(N,startchar);
31     }
32     return 0;
33 }
```

	Input	Expected	Got	
✓	2	WB	WB	✓
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

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

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

**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      {
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)
22                     c++;
23                 printf("%d0",++v);
24             }
25             if(i==0)
26             {
27                 p3=v+(v*(v-1))+1;
28                 in=p3;
29             }
30         }
31     }

```



```
34 {  
35     printf("%d",p3++);  
36     if(i2!=n-1)  
37         printf("0");  
38 }  
39 printf("\n");  
40 }  
41 }  
42 }  
43 }
```

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

Passed all tests! ✓

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