

Week 5(I)
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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
5

Output:

WBW
BWB
WBW
WBWBW
BWBWB
WBWBW
BWBWB
WBWBW

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Answer: (penalty regime: 0 %)

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

	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! ✓

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Question 2
Correct
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5.00
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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

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int t,d,i,i1,i2,o,z;
5     char c,s;
6     scanf("%d",&t);
7     for(i=0;i<t;i++){
8         scanf("%d %c",&d,&s);
9         for(i1=0;i1<d;i1++){
10             z=(s=='W')?0:1;
11             o=(i1%2==z)?0:1;
12             for(i2=0;i2<d;i2++){
13                 c=(i2%2==o)?'W':'B';
14                 printf("%c",c);
15             }
16             printf("\n");
17         }
18     }
19     return 0;
20 }
```

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

Passed all tests! ✓

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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 <= N <= 100

Input Format

First line contains T, the number of test cases

Each test case contains a single integer N

Output

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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

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,v,p3,c,in,i,i1,i2,t,ti;
4     scanf("%d",&t);
5     for(ti=0;ti<t;ti++){
6         v=0;
7         scanf("%d",&n);
8         printf("Case #d\n",ti+1);
9         for(i=0;i<n;i++){
10             c=0;
11             if(i>0){
12                 for(i1=0;i1<i;i1++) printf("***");
13             }
14             for(i1=i;i1<n;i1++){
15                 if(i>0) c++;
16                 printf("%d0",++v);
17             }
18             if(i==0){
19                 p3=v+(v*(v-1))+1;
20                 in=p3;
21             }
22             in=in-c;
23             p3=in;
24             for(i2=i;i2<n;i2++){
25                 printf("%d",p3++);
26                 if(i2!=n-1) printf("0");
27             }
28             printf("\n");
29         }
30     }
31 }
32 }
```

	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! ✓