

<b>Status</b>	Finished
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## Question 1

Correct

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-->0)
7      {
8          scanf("%d",&size);
9          count=0;
10         for(i=0;i<size;i++)
11         {
12             for(j=0;j<size;j++)
13             {
14                 if(++count%2==1)
15                     printf("W");
```

```
16         else
17             printf("B");
18     }
19     if(size%2==0)
20         count++;
21     printf("\n");
22 }
23 }
24 }
```

	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

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;
5     char start;
6     scanf("%d",&t);
7     while(t-->0)
8     {
9         scanf("%d %c",&n,&start);
10        for(int i=0;i<n;i++)
11        {
12            for(int j=0;j<n;j++)
13            {
14                if((i+j)%2==0)
15                    printf("%c",start);
16                else
17                    printf("%c",start=='W'? 'B': 'W');
```

```
17         printf("%c", (str[i] == 'W') ? 'B' : 'W');
18     }
19     printf("\n");
20 }
21 }
22 return 0;
23 }
```

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

Passed all tests! ✓

Question **3**

Correct

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  {
4      int n,row,col,oprow,oppnum,t,counter=0,num;
5      int i,s;
6      scanf("%d",&t);
7      while(t--)
8      {
9          s=0;
10         scanf("%d",&n);
11         num=1;
12         opprow=n*n+1;
13         printf("Case #%d\n",++counter);
14         for(row=n;row>=1;row--,oprow=oprow-row)
15         {
16             for(i=0;i<s;i++)
17                 printf("**");
18             s++;
19             for(col=1;col<=row;col++)
20                 printf("%d0",num++);
21             oppnum=oprow;
22             for(col=1;col<row;col++)
23                 printf("%d0",oppnum++);
24             printf("%d\n",oppnum++);
25         }
26     }
27     return 0;
28 }
```

	Input	Expected	Got	
✓	3 3	Case #1 10203010011012 **4050809	Case #1 10203010011012 **4050809	✓

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

Passed all tests! 