

Finish review

Question **1**

Correct

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3.00

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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 T,d,i=0,i1,i2,m;
5      char c;
6      scanf("%d",&T);
7      while(i<T)
8      {
9          scanf("%d",&d);
10         i1=0;
11         while(i1<d)
12         {
13             m=1;
14             i2=0;
15             if(i1%2==0)
16             {
17                 m=0;
18             }
19             while(i2<d)
20             {
21                 c='B';
22                 if(i2%2==m)
23                 {
24
25
26                     c='W';
27                 }
28
29                 printf("%c",c);
30                 i2++;
31             }
32             i1+=1;
```

```

33         printf("\n");
34     }
35     i=i+1;
36 }
37 }
38

```

	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

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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

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,d,i,i1,i2,m,z;
5     char c,s;
```

```

6     scanf("%d",&T);
7     for(i=0;i<T;i++)
8     {
9         scanf("%d %c",&d,&s);
10        for(i1=0;i1<d;i1++)
11        {
12            z=(s=='W')?0:1;
13            m=(i1%2==z)?0:1;
14            for(i2=0;i2<d;i2++)
15            {
16                c=(i2%2==m)?'W':'B';
17                printf("%C",c);
18            }
19            printf("\n");
20        }
21    }
22    return 0;
23 }
24

```

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

Passed all tests! ✓

Question **3**

Correct

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Decode the logic and print the Pattern that corresponds to given input.

7.00

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question

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



```

33  {
34      printf("%d",p++);
35      if(k!=n-1)
36          printf("0");
37  }
38  printf("\n");
39
40  }
41  }
42  return 0;
43  }

```

	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! ✓