

# 240701019

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

# 240701019

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

240701019

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,a;
4     scanf("%d",&n);
5     for(int i=0;i<n;i++){
6         scanf("%d",&a);
7         for(int j=1;j<a+1;j++){
8             for(int k=0;k<a;k++){
9                 if(j%2!=0){
10                    if(k%2==0){
11                        printf("w");
12                    }
13                    else{
14                        printf("B");
15                    }
16                }
17                else{
18                    if(k%2==0){
19                        printf("B");
20                    }
21                    else{
22                        printf("w");
23                    }
24                }
25            }
26            printf("\n");
27        }
28    }
29    return 0;
30 }
```

240701019

```
12     }
13     else{
14         printf("B");
15     }
16 }
17 else{
18     if(k%2==0){
19         printf("B");
20     }
21     else{
22         printf("W");
23     }
24 }
25 }
26 printf("\n");
27 }
28 }
29 return 0;
30 }
```

	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! ✓

# 240701019

Question **2**

Correct

Marked out of  
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

# 240701019

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

240701019

```
1 #include<stdio.h>
2 int main(){
3     int n,a;
4     char b;
5     scanf("%d",&n);
6     for(int i=0;i<n;i++){
7         scanf("%d %c",&a,&b);
8         if(b=='W'){
9             for(int j=1;j<a+1;j++){
10                 for(int k=0;k<a;k++){
11                     if(j%2!=0){
12                         if(k%2==0){
13                             printf("W");
14                         }
15                     }
16                     else{
17                         printf("B");
18                     }
19                 }
20             }
21             else{
22                 if(k%2==0){
23                     printf("B");
24                 }
25                 else{
26                     printf("W");
27                 }
28             }
29             printf("\n");
30         }
31     }
32     else{
33         for(int j=1;j<a+1;j++){
34             for(int k=0;k<a;k++){
35                 if(j%2!=0){
36                     if(k%2==0){
37                         printf("W");
38                     }
39                     else{
40                         printf("B");
41                     }
42                 }
43                 else{
44                     if(k%2==0){
45                         printf("B");
46                     }
47                     else{
48                         printf("W");
49                     }
50                 }
51             }
52             printf("\n");
53         }
54     }
55 }
```

240701019

```
21         printf("B");
22     }
23     else{
24         printf("W");
25     }
26 }
27 }
28     printf("\n");
29 }
30 }
31 else{
32     for(int j=1;j<a+1;j++){
33         for(int k=0;k<a;k++){
34             if(j%2!=0){
35                 if(k%2==0){
36                     printf("B");
37                 }
38                 else{
39                     printf("W");
40                 }
41             }
42             else{
43                 if(k%2==0){
44                     printf("W");
45                 }
46                 else{
47                     printf("B");
48                 }
49             }
50         }
51     }
52     printf("\n");
53 }
```

Input	Expected	Got
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240701019

```
36         printf("B");
37     }
38     else{
39         printf("W");
40     }
41 }
42 else{
43     if(k%2==0){
44         printf("W");
45     }
46     else{
47         printf("B");
48     }
49 }
50 }
51 printf("\n");
52 }
53 }
54 }
55 return 0;
56 }
```

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

Passed all tests! ✓

# 240701019

Question **3**

Correct

Marked out of  
7.00

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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

# 240701019

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

# 240701019

3

3

4

5

Output

Case #1

10203010011012

\*\*4050809

\*\*\*\*607

Case #2

1020304017018019020

\*\*50607014015016

\*\*\*\*809012013

\*\*\*\*\*10011

Case #3

102030405026027028029030

\*\*6070809022023024025

\*\*\*\*10011012019020021

\*\*\*\*\*13014017018

\*\*\*\*\*15016

240701019

```
1 #include<stdio.h>
2 int main(){
3     int n,o,d,y=1,m=10;
4     scanf("%d",&n);
5     int a[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&a[i]);
8     }
9     for(int k=0;k<n;k++){
10        o=(a[k]*a[k]*10)+10;
11        int h=(a[k]*20)-20;
12        printf("Case #%d",k+1);
13        printf("\n");
14        for(int i=0;i<a[k];i++){
15            for(int j=0;j<i;j++){
16                printf("***");
17            }
18            for(int j=a[k];j>i;j--){
19                printf("%d",m);
20                m=m+10;
21            }
22            for(int j=a[k];j>i;j--){
23                if(j==y){
24                    d=o;
25                    printf("%d",d/10);
26                    o=o+10;
27                    y++;
28                }
29                else{
30                    printf("%d",o);
31                    o=o+10;
32                }
33            }
34            o=o-h-10;
35            h=h-20;
36            printf("\n\n");
37        }
38    }
```

240701019

```
34         o=o-h-10;
35         h=h-20;
36         printf("\n");
37     }
38     m=10;
39     y=1;
40
41
42 }
43 return 0;
44 }
```

	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! ✓