Week 5 -1

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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Duration	14 days 2 hours

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 %)

```c
#include <stdio.h>
int main()
{
    int T,size;
    scanf("%d",&T);
    for(int t=0;t<T;t++)
    {
        scanf("%d",&size);
        for (int i=0;i<size;i++)
        {
            for (int j=0;j<size;j++)
            {
                if ((i+j)%2==0)
                printf ("W");
                else
                printf ("B");
            }printf("\n");
        }}}
```

	Input	Expected	Got	
✓	2 3 5	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	WBW BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW	✓

Passed all tests! ✓

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 %)

```c
#include <stdio.h>
int main(){
    int T,N;
    char c;
    scanf("%d",&T);
    for (int t=0;t<T;t++)
    {
        scanf("%d %c",&N ,&c);
        char f=c;
        char s= (c=='W')?'B':'W';
        for (int i=0;i<N;i++)
        {
            for (int j=0;j<N;j++)
            {
                if ((i+j)%2==0)
                printf("%c",f);
                else
                printf("%c",s);
            }
            printf("\n");
        }
            }
        }
```

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

Passed all tests! ✓

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

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

10203040502602702802903 0

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer:(penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int p,q,r,s,t=1,u,ans,v;
    scanf("%d",&p);
    while (t<=p)
    {
        scanf("%d",&q);
        printf("Case #%d \n",t);
        s=1;
        u=1;
        v=0;
        while(s<=q)
        {
            r=1;
            ans=(q*q);
            ans=ans-v;
            while(r<=2*q)
            {
                if(r<=q)
                {
                if(r<s)
                {
                    printf("**");
                }
                else if (r<=q)
                {
                    printf("%d",u*10);
                    u++;
                    u++;
                }
            }else {
                if (r+s==(2*q)+1)
                {

                    printf("%d",(ans+s));
                    ans++;
                    v++;
                }
                else if (r+s<=(2*q)+1){
                    printf("%d",(ans+s)*10);
                    ans++;
                    v++;
                }

            }
            r++;
        }
        s++;
        printf("\n");
    }
    t++;
}
return 0;}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802 9030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802 9030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	✓

Passed all tests! ✓