ROLL NO: 240701014

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 29 November 2024, 12:55 PM
Duration	24 days 4 hours

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

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
void cb(int size)
{
    char square[]={'W','B'};
    for(int i=0;i<size;i++)
    {
        for(int j=0;j<size;j++){
            printf("%c",square[(i+j)%2]);
        }
    if(size>0)
    {
        printf("\n");
    }
    }
}
int main()
{
    int t;
    scanf("%d",&t);
    while(t--){
        int size;
        scanf("%d",&size);
        cb(size);
    }
    if(t>0)
    {
        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! ✓

Question **2**
Correct
Marked out of 5.00
Flag 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 %)

```c
#include<stdio.h>
void cb(int size,char start)
{
    char square[]={ start,(start=='W')?'B
    for(int i=0;i<size;i++)
    {
        for(int j=0;j<size;j++)
        {
            printf("%c",square[(i+j)%2]);
        }
        printf("\n");
    }
}
int main()
{
    int t;
    scanf("%d",&t);
    while (t--)
    {
        int size;
        char start;
        scanf("%d %c",&size,&start);
        cb(size,start);
    }
}
```

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

Passed all tests! ✓

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

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 %)

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    for(int x=1;x<=t;x++){
        printf("Case #%d\n",x);
        int n;
        scanf("%d",&n);
        int f= 1,b=n*(n+1);
        for(int i=0;i<n;i++){
        for(int k=0;k<2*i;k++){
            printf("*");
        }
        printf("%d",f);
        f++;
        for(int j=2;j<=n-i;j++){
            printf("0%d",f);
            f++;
        }
        for(int l=b-(n-i)+1;l<=b;l++){
            printf("0%d",l);
        }
        b-=n-i;
        printf("\n");
    }
}
return 0;
}

```

	Input	Expected	Got
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 102030100110 **4050809 ****607 Case #2 102030401701 **5060701401 ****80901201 ******10011 Case #3 102030405026 **6070809022 ****10011012 ******130140 ********1501