Week-05-01

Name: Mukesn V	Roll No: 241901059
Simple Chessboard	
Problem Statement:	
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 value for size of the chessboar	rd
Output format: Print a chessboard of dimensions size * size. Print W for white spaces and B for black spaces.	
Sample Input: 2 3 5	
Sample Output: WBW BWB WBW WBWBW WBWBW BWBWB	
BWBWB WBWBW	

Program:

```
1
    #include <stdio.h>
 2
 3 +
    int main(){
 4
        int T,n;
 5
        scanf("%d",&T);
 6 ,
        while(T--){
             scanf("%d",&n);
 7
             for (int i = 0;i<n;i++){
 8 +
 9 ,
                 for(int j = 0; j < n; j + +){
                     ((i+j)%2==0)?printf("W"):printf("B");
10
11
12
                 printf("\n");
13
14
15
16
        return 0;
17
   }
```

Print Our Own Chessboard

Problem Statement:

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:

2

2 W

3 B

Sample Output: WB

BW

BWB

WBW

BWB

Program:

```
#include <stdio.h>
 1
 2
 3 v int main(){
 4
        int T;
        scanf("%d",&T);
 5
 6
 7 .
        while (T--){
 8
            int n;
 9
             char startChar;
             scanf("%d %c",&n,&startChar);
10
11
12 +
             for (int i = 0; i < n; i++){
                 for (int j = 0; j < n; j++){
13 ,
                     printf("\%c",((i+j)\%2==0)?startChar:(startChar=='W'?'B':'W'));
14
15
16
                printf("\n");
17
18
19
        return 0;
20
   }
```



Pattern Printing

Problem Statement:

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 Format

First line print Case #i where i is the test case number, In the subsequent line, print the pattern

```
Sample Input
3
3
4
```

5

Sample Output
Case #1
10203010011012
**4050809
****607
Case #2
1020304017018019020
**50607014015016
****809012013
******10011
Case #3

102030405026027028029030 **6070809022023024025 ****10011012019020021 ******13014017018 *******15016

