Week 5 - 1:

ROLL NO.:240801181

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Q1) 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 chessboard 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** 

**BWBWB** 

WBWBW

**BWBWB** 

**WBWBW** 

### Code:

**OUTPUT:** 



## Q2) 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** 

Code:

### **OUTPUT:**



Passed all tests! <

Q3) 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
4
5
Sample Output
Case #1
10203010011012
**4050809
****607
Case #2
1020304017018019020
**50607014015016
****809012013
*****10011
Case #3
102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
******15016
```

### Code:

# OUTPUT:

|   | 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! <