#### Week 5-1:

-- Practice Session- Coding

ROLL NO.:240801175

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Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Monday, 16 December 2024, 10:23 PM

Duration 6 days 19 hours

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:

```
1 #include<stdio.h>
 3 v int main(){
    int t,n;
scanf("%d",&t);
 4
 11
           printf("W");
 12
           else
           printf("B");
 13
 14
 15
        printf("\n");
 16
 17
 18
    return 0;
```

## Output:

	Input	Expected	Got	
~	2	WBW	WBW	~
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
Passe	d all test	s! 🗸		

## 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** 

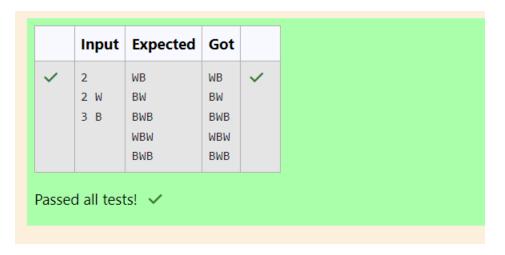
**WBW** 

BWB

Code:

```
1 #include<stdio.h>
     2
3 v
  4
  5
  6
  8
  9 ,
  10 🔻
 11 🔻
  12 ,
 13
  14
  15
  16
 17
 18
                   }
else{
  19
                      if((i + j)%2==0){
    printf("B");
  20
  21
  22
                       else{
  23
                          printf("W");
  24
  25
  26
  27
 28
29
                printf("\n");
  30
  31
 32
     return 0;
 33 }
```

Output:



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
```

Code:

\*\*\*\*\*\*15016

# Output:

	Input	Expected	Got	
~	3	Case #1	Case #1	<b>~</b>
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2 Case #2		
		1020304017018019020 1020304017018019020		
		**50607014015016		
		****809012013		
		*****10011	*****10011	
		Case #3 Case #3		
		102030405026027028029030	102030405026027028029030	
		**6070809022023024025	**6070809022023024025	
		****10011012019020021	****10011012019020021	
		*****13014017018	*****13014017018	
		*******15016	******15016	

Passed all tests!