Week 5 – 1:

ROLL NO.:240801165

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Your attempts

Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Wednesday, 20 November 2024, 7:32 PM
Duration	32 days 22 hours
Review	

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

Code:

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:

```
Answer: (penalty regime: 0 %)
   1 # include<stdio.h>
        int main()
   4 ▼ {
    5
           int t,size;
           char ch;
scanf("%d",&t);
    6
    8
           while(t--)
   9 🔻
                scanf("%d %c",&size,&ch);
for(int i=0;i<size;i++)</pre>
   10
   11
   12 🔻
                 for(int j=0;j<size;j++)</pre>
   13
   14 v
                      if((i+j)%2==0)
printf("%c",ch);
   15
   16
   17
   18
                      printf("%c",(ch=='W')?'B':'W');
   19
   20
   21
                 printf("\n");
   22
   23
   24
            return 0;
   25 }
```

OUTPUT:

li
W B

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

3

4

5

Sample Output

```
Case #1
```

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

*****10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

******15016

Code:

```
Answer: (penalty regime: 0 %)
     1 #include <stdio.h>
          int main() {
     2 1
               int num,t;
scanf("%d",&t);
     4
     5
               int st1=1;
     6
              int st2;
for(int k=1;k<=t;k++){
    printf("Case #%d\n",k);
    scanf("%d",&num);</pre>
     8
     9
   10
   11
                     st1=1;
                     st2=num*(num+1);
   12
                     for(int i=0;i<num;i++)</pre>
   13
   14
                           for(int j=0;j<i;j++){
    printf("**");</pre>
   15
   16
   17
                           for(int j=0;j<num-i;j++){
    printf("%d",(st1++)*10);</pre>
   18
   19
   20
                           st2=st2-(num-i-1);
   21
                           for(int j=0;j<(num-i-1);j++){
    printf("%d",(st2++)*10);</pre>
   22
   23
   24
                           printf("%d",st2);
   25
                           st2=st2-(num-i);
printf("\n");
    26
   27
   28
   29
    30
               return 0;
    31 }
```

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	