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 %)

```
#include<stdio.h>
int main()
    {
        int a;
        scanf("%d",&a);
        for(int n=0;n<a;n++)
        {
          int size;
          scanf("%d",&size);
          for(int i=0;i<size;i++)
          {
            for(int j=0;j <size;j++)
              {
                  if((i+j)%2==0)
                  {
                      printf("W");
                  }
                  else
                  {
```

```
18                  else
19                  {
20                      printf("B");
21                  }
22              }
23              printf("\n");
24          }
25      }
26      return 0;
27  }
```

	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>
int main()
{
    int a;
    scanf("%d",&a);
    for(int n=0;n<a;n++)
  {
     int N;
     char S;
     scanf("%d %c",&N,&S);

     char alt = (S=='W')?'B':'W';
     for(int i=0;i<N;i++)
     {
         for(int j=0;j<N;j++)
         {
             if((i+j)%2==0)
             {
                 printf("%c",S);
             }
             else
```

```
23                  printf("%c",alt);
24                }
25              }
26                printf("\n");
27          }
28   }
29   return 0;
30  }
```

	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

10203040502602702802903O

**6070809022023024025

****100110120190200021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n,v,p3,c,in,i,i1,i2,t,ti;
```

```
    scanf("%d",&t);
    for(ti=0;ti<t;ti++)
    {
        v=0;
        scanf("%d",&n);
        printf("Case #%d\n",ti+1);
        for(i=0;i<n;i++)
        {
            c=0;
            if(i>0)
            {
                for(i1=0;i1<i;i1++)
                printf("**");
            }
        for(i1=i;i1<n;i1++)
        {
            if(i>0)c++;
            printf("%d0",++v);
        }
        if(i==0)
        {
            p3=v+(v*(v-1))+1;
            in=p3;
        }
            in=in-c;
            p3=in;
            for(i2=i;i2<n;i2++)
            {
                printf("%d",p3++);
                if(i2!=n-1)printf("0");
            }

            printf("\n");
```

```
37              printf("\n");
38          }
39          }
40          return 0;
41
42  }
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802 9030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802 9030 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	✓

Passed all tests! ✓