Duration 17 days 7 hours

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 T,d,i=0,i1,i2,o;
 char c;
 scanf("%d",&T);
 while(i<T)
 {
   scanf("%d",&d);
   i1=0;
   while(i1<d)
   {
      o=1;
      i2=0;
      if(i1%2==0)
      {
         o=0;
```

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
 int T,d,i=0,i1,i2,o;
 char c;
 scanf("%d",&T);
 while(i<T)
 {
   scanf("%d",&d);
   i1=0;
   while(i1<d)
   {
      o=1;
      i2=0;
      if(i1%2==0)
      {
         o=0;
      }
      while(i2<d)
      {
         c='B';
      if(i2%2==o)
      {
         c='W';
      }
      printf("%c",c);
      i2++;
      }
      i1+=1;
      printf("\n");
   }
   i=i+1;
 }
}
```

	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 t,d,i,i1,i2,o,z;
 char c,S;
 scanf("%d",&t);
 for(i=0;i<t;i++)
 {
    scanf("%d %c",&d,&S);
    for(i1=0;i1<d;i1++)
    {
        z=(S=='W')?0:1;
        o=(i1%2==z)?0:1;
        for(i2=0;i2<d;i2++)
        {
            c=(i2%2==o)?'W':'B';
            printf("%c",c);
        }
        printf("\n");
        }
    }
  return 0;
}
```

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 t,d,i,i1,i2,o,z;
 char c,S;
 scanf("%d",&t);
 for(i=0;i<t;i++)
 {
    scanf("%d %c",&d,&S);
    for(i1=0;i1<d;i1++)
    {
        z=(S=='W')?0:1;
        o=(i1%2==z)?0:1;
        for(i2=0;i2<d;i2++)
        {
            c=(i2%2==o)?'W':'B';
            printf("%c",c);
        }
        printf("\n");
        }
    }
  return 0;
}
```

	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

3

3

4

5

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

Case #3

10203040502602702802 9030

**6070809022023024025

****10011012019020021

******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");
        }
        }
       }
```

******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");
        }
        }
       }
```

	Input	Expected	Got
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 102030100110 **4050809 ****607 Case #2 102030401701 **5060701401 ****80901201 ******10011 Case #3 102030405026 **6070809022 ****10011012 ******130140 ********1501

Passed all tests! ✓

Finish review