Question 1
Correct
Marked out of 3.00

F Flag question

WBW

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

Input:		
2		
3		
5		
Output:		
WBW		
BWB		
WBW		
WBWBW		
BWBWB		
WBWBW		
BWBWB		
WBWBW		

```
#include<stdio.h>
2
   int main()
 3 ₹ {
 4
        int T,d,i=0,i1,i2,o;
        char c;
scanf("%d",&T);
 5
 6
        while(i<T)
 7
 8
            scanf("%d",&d);
 9
10
            i1=0;
            while(i1<d)
11
12
13
                0=1;
14
                i2=0;
                if(i1%2==0)
15
16
                {
                    0=0;
17
18
19
                while(i2<d)
20
21
22
                   c='B';
                    if(i2%2==o)
23
24
25
                       c='W';
26
27
                    }
28
                    printf("%c",c);
29
                    i2++;
30
                i1+=1;
31
               printf("\n");
32
33
            i=i+1;
34
35
   return(0);
36
37
```

```
21 v
22
                      c='B';
if(i2%2==o)
23
                      c='W';
24 +
25
26
27
                      printf("%c",c);
i2++;
28
29
30
                  i1+=1;
printf("\n");
31
32
33
34
              i=i+1;
35
36 return(0);
37 }
```

	Input	Expected	Got	
/	2	WBW	WBW	~
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	

Passed all tests! <

Question **2**Correct
Marked out of 5.00

F Flag question

Output:

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

2
2 W
3 B
Output:
WB
BW
BWB
WBWB

```
#include<stdio.h>
2 in 3 * {
     int main ()
           int T,d,i,i1,i2,o,z;
char c,s;
scanf("%d",&T);
for(i=0;i<T;i++)</pre>
 4
 5
 6
 7
 8
                 scanf("%d %c",&d,&s);
for(i1=0;i1<d;i1++)</pre>
 9
10
11 ,
                       z=(s=='W') ? 0:1;
o=(i1%2==z) ? 0:1;
12
13
                       for(i2=0;i2<d;i2++)
14
15
                            c=(i2%2==o) ? 'W' : 'B';
printf("%c",c);
16
17
18
                       }printf("\n");
19
20
21
22
            return(0);
23 }
```

Question **3**Correct
Marked out of 7.00
Friag 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

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

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
       int main(){
   2 *
            int n,v,p3,c,in,i,i1,i2,t,ti;
scanf("%d",&t);
   4
   5 ,
            for(ti=0;ti<t;ti++){</pre>
   6
                v=0;
                scanf("%d",&n);
                printf("Case #%d\n",ti+1);
   8
   9 ,
                for(i=0;i<n;i++){</pre>
  10
                     c=0;
                     if(i>0){
  11 1
  12
                         for(i1=0;i1<i;i1++) printf("**");</pre>
  13
  14 *
                for(i1=i;i1<n;i1++){</pre>
  15
                    if(i>0) c++;
printf("%d0",++v);
  16
  17
                if(i==0){
  18 •
                     p3=v+(v*(v-1))+1;
   19
                     in=p3;
  20
  21
  22
                in=in-c;
  23
                p3=in;
                for(i2=i;i2<n;i2++){
  24
  25
                     printf("%d",p3++);
                     if(i2!=n-1) printf("0");
  26
  27
                }printf("\n");
  28
  29
  30 }
```

	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! <

Question 1 Correct	The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N.
Marked out of 3.00 ▼ Flag question	Given a positive integer N, return true if and only if it is an Armstrong number.
	Example 1:
	Input:
	153
	Output:
	true
	Explanation:
	153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3.
	Example 2:
	Input:

123
Output:
false
Explanation:
123 is a 3-digit number, and 123 != 1^3 + 2^3 + 3^3 = 36.
Example 3:
Input:
1634
Output:
true
Note:

```
#include<stdio.h>
1
    #include<math.h>
2
    int main()
3
4 *
    {
5
        int n;
6
        scanf("%d",&n);
7
        int x=0,n2=n;
        while(n2!=0)
8
9 ,
        {
10
            X++;
            n2=n2/10;
11
12
        int sum=0;
13
        int n3=n,n4;
14
15
        while(n3!=0)
16 ,
            n4=n3%10;
17
            sum=sum+pow(n4,x);
18
19
            n3=n3/10;
20
        if(n==sum)
21
22 1
            printf("true");
23
        }
24
        else
25
26 1
           printf("false");
27
28
29
        return(0);
30
31
```

```
9
         MITTE(IIS:-A)
             X++;
10
             n2=n2/10;
11
12
         int sum=0;
int n3=n,n4;
while(n3!=0)
13
14
15
16 •
             n4=n3%10;
17
             sum=sum+pow(n4,x);
n3=n3/10;
18
19
         }
if(n==sum)
20
21
22 -
            printf("true");
23
24
25
         else
26
         {
27
            printf("false");
28
         return(0);
29
30
31 }
```

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~

Passed all tests! ✓

Question **2**Correct
Marked out of 5.00

P Flag question

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
 2
    int main()
 3 +
4
        int rn,n,nt=0,i=0;
 5
        scanf("%d",&n);
6
        do{
            nt=n;rn=0;
 7
 8
            while(n!=0)
9
10
                rn=rn*10+n%10;
11
                n=n/10;
            }
12
            n=nt+rn;
13
14
            i++;
15
        while(rn!=nt||i==1);
16
17
        printf("%d",rn);
18 }
```

```
Answer: (penalty regime: 0 %)
    1 #include<stdio.h>
       int main()
    2
    3 ,
       {
            int rn,n,nt=0,i=0;
scanf("%d",&n);
    4
    5
    6 1
    7
                nt=n;rn=0;
    8
                while(n!=0)
    9 ,
   10
                     rn=rn*10+n%10;
   11
                     n=n/10;
   12
   13
                n=nt+rn;
   14
                 i++;
   15
            while(rn!=nt||i==1);
printf("%d",rn);
   16
   17
   18 }
```

	Input	Expected	Got	
~	32	55	55	~
~	789	66066	66066	~

Passed all tests! <

Question 3 A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st Correct lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not Marked out of lucky as they have other numbers in it. 7.00 P Flag question The program should accept a number 'n' as input and display the nth lucky number as output. Sample Input 1: Sample Output 1: 33 Explanation: Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33. Sample Input 2: 34

Sample Output 2:

Sample Input 1:
3
Sample Output 1:
33
Explanation:
Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.
Sample Input 2:
34
Sample Output 2:
33344

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
      int main()
   2
   3 * {
          int n=1,i=0,nt,co=0,e;
scanf("%d",&e);
   4
   5
          while(i<e)
   6
   7 ,
           {
               nt=n;
   8
   9
               while(nt!=0)
  10
                   co=0;
  11
                   if(nt%10!=3&&nt%10!=4)
  12
  13 ,
                   {
  14
                       co=1;
                      break;
  15
  16
                   nt=nt/10;
  17
  18
               }if(co==0)
  19
  20
                   i++;
  21
  22
               n++;
  23
          printf("%d",--n);
  24
  25 }
```