Question 1 Write a program that prints a simple chessboard. Correct Marked out of 3.00 Input format: P Flag question 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 **Activate Windows** WBWBW Go to Settings to activate Windo **BWBWB**

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

Input	Expected	Got	
2	MBM	WBW	1
3	BWB	BWB	
5	MBM	WBW	
	MBMBM	MBMBM	
	BMBMB	BWBWB	
	WBWBW	MBMBM	
	BWBWB	BWBWB	
	MBMBM	WBWBW	

Question 2
Correct
Marked out of 5.00
F 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:

Activate Windows
Go to Settings to activate Windows.

Input 2 2 W 3 B Output: WB BW BWB WBW BWB Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    int main()
2
3 +
        int T,d,i,i1,i2,0,z;
 4
 5
        char c,s;
 6
        scanf("%d",&T);
        for(i=0;i<T;i++)
 7
 8
            scanf("%d %c",&d,&s);
 9
            for(i1=0;i1<d;i1++)
10
11
                Z=(S=='W')?0:1;
12
                0=(11%2==Z)?0:1;
13
                for(i2=0;i2<d;i2++)
14
15 .
                   C=(12%2==0)?'W':'B';
16
                   printf("%c",c);
17
18
                printf("\n");
19
28
21
        return 0;
22
23 }
```

2	2	2324	1	
	Æ:	WB	WB	1
2	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BMB	

Question 3

Correct

Marked out of 7,00

Fing 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

Activate Windows

Go to Settings to activate Windows.



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 Output Case #1 10203010011012 **4050809 ****607 Case #2 **Activate Windows** 1020304017018019020 Go to Settings to activate Windows. **5060701/015016

```
#include<stdio.h>
    int main()
 2
 3 +
        int n,v,p3,C,in,i,i1,i2,t,ti;
 4
 5
        scanf("%d",&t);
 6
        for(ti=0;ti<t;ti++)
7 1
 8
            V=0;
            scanf("%d",&n);
 9
            printf("Case #%d\n",ti+1);
18
            for(i=0;i<n;i++)
11
12
13
                C=0;
                if(i>0)
14
15
                    for(i1=0;i1<i;i1++)
16
                   printf("==");
17
18
                for(i1=i;i1<n;i1++)
19
28
                   if(i>0)C++;
21
                    printf("%d0",++v);
22
23
                if(i==0)
24
25
                    p3=v+(v*(v-1))+1;
26
27
                    in=p3;
28
29
                in=in-C;
38
                p3=in;
                for(i2=i;i2<n;i2++)
31
32
                   printf("%d",p3++);
33
34
                   if(i2|=n-1)
                   printf("0");
35
36
                printf("\n");
37
                                                                                                     Activate Windows
38
39
                                                                                                     Go to Settings to activate Windows.
40
```

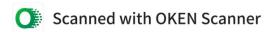
	Input	Expected	Got	
~	3	Case #1	Case #1	
	3	10203010011012	10203010011012	
	4	**4050809	**4050809	
	5	****607	****607	
		Case #2	Case #2	
		1020304017018019020	1020304017018019020	
		**50607014015016	**50607014015016	
		****809012013	****809012013	
		*****10011	*****10011	
		Case #3	Case #3	
		102030405026027028029030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

Passed all tests! 🗸

Question 1
Correct
Marked out of 3.00
P Flag question

123

The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N. 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: **Activate Windows**



Go to Settings to activate Windows.



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

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

Passed all tests! ~

Question 2 Correct Marked out of 5.00

F Flag question

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1<=num<=999999999 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 2
    int main()
3 +
       int rn,n,nt=0,i=0;
 4
       scanf("%d",&n);
 5
 6
7 .
           nt=n,rn=0;
8
           while(n!=0)
 9
10
               rn=rn*10+n%10;
11
12
               n=n/10;
13
14
           n=nt+rn;
           i++;
15
16
       while(rn!=nt||i==1);
17
       printf("%d",rn);
18
       return 0;
19
                                                                                                  Activate Windows
20
21
                                                                                                  Go to Settings to activate Windows.
22
```

	Input	Expected	Got	
1	32	55	55	1
4	789	66066	66866	~

Passed all tests! <

Question **3**Correct
Marked out of 7.00

P Flag question

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 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 lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as output.

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.

Activate Windows

Go to Settings to activate Windows.



```
Answer: (penalty regime: 0 %)
      #include<stdio.h>
    2
       int main()
    3 + (
           int n=1,i=0,nt,co=0,e;
           scanf("%d", &e);
    5
           while(i<e)
    6
               nt=n;
    8
               while(nt!=0)
    9
   10 ,
   11
                   co=0;
   12
                   if(nt%10!=3&&nt%10!=4)
   13 .
                       CO=1;
   14
                       break;
   15
   16
                   nt=nt/10;
   17
   18
               if(co==0)
   19
   20 1
                   i++;
   21
   22
               n++;
   23
   24
           printf("%d",--n);
   25
   26
           return 0;
   27
```