Question 1
Correct
Marked out of 3.00
P: 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

MBMBM

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
    int main()
 3 + {int T;
4 scanf("%d",&T);
 5 for(int t = 0;t<T;t++) {
7 int size;
8 scanf("%d",&size);
9 for(int i = 0;i<size;i++)
10 {for(int j = 0; j < size; j++)
11 + {
12 if((i+j)%2 == 0)
13 printf("W");
14 else
15 printf("B");
16
17 printf("\n");
18
19
20 return 0;
21
22
```

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

2

2 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
    int main()
    {
 4
         scanf("%d",&T);
         for(int t = 0;t<T;t++)
 6
 7
 8
             int N;
             char start;
scanf("%d %c",&N,&start);
char alt = (start == 'W')?'B':'W'
 9
10
11
12 .
                  for(int i=0;i<N;i++)
13
14
                       for(int j=0;j<N;j++)
15
16
                           if((i+j)%2==0)
18
19
                                printf("%c",start
20
21
                           else
22
                           1
                                printf("%c",alt);
23
24
25
                       printf("\n");
26
27
28
             }
29
30
         return 0;
31
   1
```

```
Input Expected Got
    2
                   WB
    2 W
          BW
                   BW
     3 B
         BWB
                   BWB
          WBW
                   WBW
          BWB
                   BWB
Passed all testel
```

```
Decode the logic and print the Pattern that corresponds to
                 given input.
T Rag queenon
                 then pattern will be
                 10203010011012
                 **4050809
                 ****607
                 If N= 4, then pattern will be:
                 1020304017018019020
                 °50607014015016
                 ****809012013
                 *****10011
                 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
                 5
                 Output
                 Case #1
                 10203010011012
                 **4050809
                 ****607
                 Case #2
                 1020304017018019020
                 **50607014015016
                 ****809012013
                 *****10011
                 Case #3
                 102030405026027028029030
                 **6070809022023024025
                 ****10011012019020021
                 *****13014017018
                 *****15016
                Answer: (penalty regime 0%)
```

Correct

Markell out of 7:00

```
Input Expected
```

Owner 1 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 Y Ray question Given a positive integer N, return true if and only if it is an Example 1: Input 153 Output: true **Explanation** 153 is a 3-digit number, and 153 = 1*3 + 5*3 + 3*3. Example 2: 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 1 -- N -- 10*8 Answer: (pensity regime: 0 %)

\$ | Kinclude = Stalin no |
2 | winclude = Stalin no |
2 | winclude = Stalin no |
3 | int main() |
4 | {int n; |
5 | scanf("Se", An); |
6 | int x = 0, n2 = n; |
7 | while(n2! = 0) |
8 | x = -; |
10 | n2 = n2/10; |
11 | }
12 | int sum=0; |
13 | int n3 = n, n4; |
14 | while(n3! = 0) |
15 | {
16 | n4 = n3 = 10; |
17 | sum = sum = pon(n4, x); |
18 | n3 = n3/10; |
19 | }
20 | if (n = sim) |
21 | {printf("true"); |
22 | }
23 | else |
24 | {printf("felse"); |
25 |
26 | return 0; |
27 |} Answer: (pensity regime: 0.%) Input Expected Got



Outrest

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints

Question 2

Correct

Marked out of 5.00

Flag question

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1<=num<=99999999 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

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

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

Passed all tests! <

Ouestion 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:

-

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>
2 int main()
3 = {
         int n=1,i=0,nt,co=0,e;
scanf("%d",&e);
while(i<e)</pre>
8
              nt = n;
              while(nt!=0)
10 .
11
12
                  nt=n;
                  while(nt!=0)
13
                       if(nt%10|=3 && nt%10|=4)
15
16
17
                            co=1;
                           break;
19
                       nt=nt/10;
20
21
22
23
24
25
                   if(co==0)
                       i++;
26
27
28
29
              printf("%d", --n);
31
              return 0;
32
33 }
```