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

```
Input Expected Got
    2
           WBW
                   WBW
                          ~
          BWB
                   BWB
          WBW
                   WBW
          WBWBW
                   WBWBW
          BWBWB
                   BWBWB
          WBWBW
                   WBWBW
          BWBWB
                   BWBWB
          WBWBW
                   WBWBW
Passed all tests! V
```

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

```
#include<stdio.h>
int main()
 2
3
4
5
6
7
             int T;
scanf("%d",&T);
for (int t=0;t<T;t++)
                   int N;
char start;
scanf("%d %c",&N,&start);
char alt = (start =='W')? 'B':'W';
for (int i=0;i<N;i++)
 10
11
12
13
14
                           for (int j=0;j<N;j++)
                         {
    if ((i+j)%2==0)
16
17
                               { printf("%c", start); }
18
19
                               else
{
20
21
22
                                     printf("%c",alt);
22
23
24
25
26
27
28
29 |}
                                }
                          printf("\n");
             return 0;
```

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 102030405026027028029030 **6070809022023024025 ****10011012019020021 *****13014017018 ******15016

	Got	It Expected	Input	
~	5 **6070809022023024025	Case #1 10203010011012 **44050809 *****607 Case #2 1020304017018019020 **50607014015016 *****809012013 ******10011 Case #3 10203040502602702802903 **6070809022023024025 ****10011012019020021 ******13014017018	3 3 4 5 5	~

Question 1 Correct Marked out of 3.00 V Flag question

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:
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:
1 <= N <= 10^8

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

Input	Expected	Got	
153	true	true	~
123	false	false	~

Question 2
Correct
Marked out of 5.00
P 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 %)

```
1 #include<stdio.h>
 2 3 4
     int main()
         int rn,n,nt=0,i=0;
scanf("%d",&n);
               nt=n;
               rn=0;
10
11
12
               while(n!=0)
{
    rn=rn*10 + n%10;
13
14
15
16
17
                   n/=10;
               n=nt+rn;
i++;
18
          while(rn!=nt || i==1);
20
21
22
23 }
               printf("%d",rn);
           return 0;
```

Question 3
Correct
Marked out of 7.00
F Flag

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.

Sample Input 2:

34

Sample Output 2:

33344

```
#include<stdio.h>
2
3 4
5
6
7 8
9
10
11
12
       int main()
            int n=1,i=0,nt,co=0,e;
scanf("%d",&e);
while(i<e)</pre>
                   while(nt!=0)
                        co=0;
if(nt%10!=3 && nt%10!=4)
13
14
15
                              co=1;
break;
16
17
18
19
                         nt=nt/10;
20
21
22
                   if(co==0)
                        i++;
23
24
25
26
27
                   n++;
             printf("%d", --n);
return 0;
28
```