QUIZ 2

ID: 002 **Time: 16:00 – 17:30**

Problem 1 – 1 points:

Write a function to calculate the multiplication of all integer numbers from N to M where N and M are from keyboard.

Input	Output
1 3	6

Problem 2 – 2 points:

Write a function to calculate the sum of all odd integer numbers from N to M where N and M are from keyboard.

Input	Output
1 5	9

Problem 3– 2 points:

Write a function to check whether a number N is in a lucas series or not. A lucas series is defined as follows:

$$a_0 = a,\ a_1 = b,\ a_i = a_{i-1} + a_{i-2}$$

where a, b and N are inputted from keyboard

Input	Output
1 2 3	True
1 2 4	False

Problem 4 – 2 points:

Write a function to check a number which satisfy the following characteristic:

"The multiplication of all digits is twice as the sum of its all digits"

E.g: 36: 3x6 = 18, 3+6 = 9 so 18 = 9*2

Input	Output
36	True
37	False

Problem 5 – 2 points:

Write a function to concatenate two ascending list so that the results are also ascending. Do not use the sort algorithm. Do not need to write an input program.

Input	Output
1 3 9 2 10	1 2 3 9 10

Problem 6 – 1 points:

Write a function to eliminate all odd numbers in a list A with N elements without using the built-in function such as remove, append, etc. Do not use the alternative data structure such as list, dictionary, etc. N, A are inputted from keyboards.

Input	Output
5 1 2 3 4 5	2 4