**PA1 - ANOTHER - 9**

Fcatron is an exoteric programming language.

A FACTRON programme is a list of fractions. In this problem you are going to use the following fractron programme.

[ [455,33] , [11,13] , [3,7] , [11,2] , [1 , 3] ]

You are given an integern.Iterating through the list above from the strat to the end. For each pair p

You check whteher (n\*p[0]) is a multiple of p[1] and do the following.

* If yes then replace n by n\*p[0]/p[1] and go back to the begining and repeat
* If the condition doesn’t hold for any of the pairs, then stop

Develop a python program to take n as the input , simulate the above FRACTRON program and output the number of times n changed and the last value of n.

**Format**

Input : An integer denoting the value of n

Output : Two integers seperated bt a space : The number of times n changed and the last value of n

**Sample**

Case I

Input : 2

Output : 2 1

Explanation:

Here n=2 the first pair to satisfy the condition is [11,2]. Hence n becomes 11. Then the n satisfy the condition is [1,11]. Hence n becomes 1. For n=1, none of the pairs satisfy the condition and stop there. The changes of n: 2🡪 11🡪1. So n changed 2 times and the last value was 1.

Case 2

Input : 6

Output : 6 5

Explanation :

n is changed in the following pattern: 6🡪33🡪455🡪385🡪35🡪15🡪5