**7 kyu**

**Sum Factorial**

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Factorials are often used in probability and are used as an introductory problem for looping constructs. In this kata you will be summing together multiple factorials.

Here's a few examples of factorials:

4 Factorial = 4! = 4 \* 3 \* 2 \* 1 = 24

6 Factorial = 6! = 6 \* 5 \* 4 \* 3 \* 2 \* 1 = 720

In this kata you will be given multiple values (in a list) that you must first find the factorial and then return the sum.

For example if you are passed the list [4, 6] the equivalent mathematical expression would be (4! + 6!) which would equal 744.

Good Luck!

Note: Assume that all values in the list are positive integer values > 0 and each value in the list is unique. Also, you must write your own implementation of factorial ie. you cannot use the built-in math.factorial() method in python.

<https://www.codewars.com/kata/sum-factorial/python>

*'''*

*Created on 14 oct. 2018*

**@author:** *Usuario*

*'''*

from test.crashers.mutation\_inside\_cyclegc import lst

*'''*

*Created on 13 jun. 2018*

**@author:** *Usuario*

*'''*

import string

import sys

def **sum\_factorial**(lst):

m = max(lst)

#print(m)

factoriales = [0] \* (m + 1)

#for i in range(1, m+1) :

# factoriales.append(0)

prod = 1

for i in range(1, m+1):

prod \*= i

factoriales[i] = prod

s = 0

for elem in lst:

s += factoriales[elem]

return s

lista = [5,4,1]

print (sum\_factorial(lista))