

Sum of Primes

Problem ID: a11p05sumofprimes

Write a function, `prime_sum`, that takes a list of integers and returns the sum of all prime numbers in the list.

Hint: using *list comprehensions* here could prove to be useful. Additionally you should take a look at some of the list functions discussed in the textbook.

You are given the function `is_prime(n)` to check whether a given number n is prime or not, the function returns a boolean.

The main file, which handles input and output, is already provided. - Please only submit your function definitions, without any code outside the functions!

Input

The function receives one parameter, a list of integers l .

In the tests, l will be of length $1 \leq |l| \leq 100$, each integer l_i in the list will be restricted to $1 \leq l_i \leq 100\,000$.

In the samples below, the first and only line of the input contains a sequence of integers each separated by a comma. Gradescope will take this sequence, split it into the list l , converting each number to `int`, and pass it to your function.

Output

The function should return the sum of all primes in the list l .

In the samples below, the first and only line of the output contains this sum.

Sample Input 1

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

Sample Output 1

28

Sample Input 2

4, 6, 12, 32

Sample Output 2

0

Sample Input 3

2, 4, 6, 12, 32, 64, 120

Sample Output 3

2
