

Problem 1: Multiples of 3 or 5

Description

If we list all the natural numbers below 10 that are multiples of 3 or 5, we get 3, 5, 6 and 9. The sum of these multiples is 23.

Find the sum of all the multiples of 3 or 5 below 1000.

Solution

```
module Problem0001 where

filteredNumbers :: [Integer] -> [Integer]
filteredNumbers = filter (\x -> x `mod` 3 == 0 || x `mod` 5 == 0)

solve :: Integer
solve = sum (filteredNumbers [1..999])
```