Lab Assignment 1

CS 362 – Principles of Programming Languages II

Winter 2018

Problems

– Write a function `makeLst` that takes as input a positive integer `n` and returns the list `[1,2,...,n]`. Your function does not need to work with non-positive integer.

– Write a function `removeMult` of type `int list * int -> int list` that removes all multiples of a given integer from a list.

– Write a function `primes` of type `int -> int list` that outputs a list of all prime numbers which are smaller than or equal to a given integer $n > 2$. You can use the sieve of Eratosthenes[1] and previously defined functions to calculate these numbers.

Submission

Write your functions in a single `.sml`-file and upload it to canvas.

This is an individual assignment. Therefore, a submission is required from each student.

Deadline: Sunday, January 14, 11:59 pm.

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[1] See `https://en.wikipedia.org/wiki/Sieve_of_Eratosthenes`.