

CSC301 Assignment #7

Due Friday 11/3 in Sakai.

Exercise 9.6

Write the function *sqsum* of type *int list -> int* that takes a list of integers and returns the sum of the squares of those integers. For example, if you evaluate *sqsum* [1,2,3,4] you should get $1^2 + 2^2 + 3^2 + 4^2 = 30$.

Do not use explicit recursion but use one of the fold functions in order to get full credit. Do not write any additional functions, *sqsum* should be the only function.

Exercise 9.26

Define a **curried** function *mymap* of type $('a \rightarrow 'b) \rightarrow 'a \text{ list} \rightarrow 'b \text{ list}$ that works just like the builtin function *map*. You are not allowed to use the built-in *map* to implement this function. You are allowed to define additional functions in order to implement this functions (similar to the mergesort).

For both exercises show that your code works with some telling examples.