

CSC301 Assignment #4

Due Wednesday 10/11 in Sakai.

Write functions for the following specifications. Hand in your source code and a screen shot of your program running with some example data.

Handwritten programs are not accepted!

Problem

Write a function *max3* of type *int*int*int -> int* that returns the largest of three integers.

Problem

Write a function *second* of type *'a list -> 'a* that returns the second element of a list. Your function need not behave well on lists with less than two elements.

Problem

Write a function *permute* of type *'a list -> 'a list* whose output list is the same as the input list, but with the first two elements of the list swapped.

For example: *permute* (*[1,2,3,4]*) should return *[2,1,3,4]* or *permute*(*["a","b","c"]*) should return *["b","a","c"]*