CSC301 Assignment #4

Due Wednesday 10/14 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.

**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']`