Exercises Dec. 9 and 10

1. ADAPTED FROM JUNE 2005, 1
   SelectionSort is an $O(n^2)$ time sorting algorithm which works by repeatedly finding and removing the smallest element in a list.

   Define in Haskell a function `selsort` which implements SelectionSort.

2. ADAPTED FROM JUNE 2006, 1
   The *statistics* of a list is a list of tuples telling how many times each list element appears. As an example, for the list `['a','b','c','a','a','c']`, the statistics is `[('a',3),('b',1),('c',2)]`. The statistics for the empty list is defined to be the empty list. We only consider statistics for lists whose elements are members of the `Ord` class.

   Make in Haskell a definition of

   `statistics ::  Ord a => [a] -> [(a,Int)]`

   such that `statistics l` is the statistics for the list `l`.