

1998 Paper 1 Question 1

Foundations of Computer Science

This question has been translated from Standard ML to OCaml

Code the function `least n xs`, which returns the least n elements of the list xs of real numbers. The result does not have to be sorted. You may assume $n \leq \text{List.length } xs$.

[Hint: Function `least` is a simple modification of quicksort. A solution that works by sorting the entire list will receive little credit. You may take the function `List.length` as given.]

[10 marks]