# In-class work: Selection 

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1. (CLRS 9.3-1) In the algorithm SELECT, the input elements are divided into groups of 5. Will the SELECT algorithm work in linear time if they are divided into groups of 7 ? Argue that SELECT does not run in linear time of groups of 3 are used.
2. (CLRS 9.3-3) Show how QuickSort can be made to run in $O(n \lg n)$ time in the worst case, assuming that all elements are distinct.
