CS 240: Data Structures and Data Management	Spring 2022
Tutorial 6: June 20	

1. Suppose we have *n* English words (26-letter alphabet), where the combined length of all words is ℓ . Give an algorithm to sort the strings in $O(\ell)$ time in lexicographical ordering, e.g., "*a*" < "*ab*" < "*b*".

2. Suppose we have an array \mathcal{A} of numbers such that $\mathcal{A}[i] = ai + b$ with a > 0 and b as real numbers. Show that interpolation search always achieves a runtime of O(1) with \mathcal{A} , regardless of whether the target is in the array or not.