

Homework Assignment: 2

Name: Jonathan Gaines

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1. X Sorting Algorithm

(a)

$EXAMPLE \Rightarrow AXEMPLE \Rightarrow AEXMPLE \Rightarrow AEEMPLX$
 $\Rightarrow AEELPMX \Rightarrow AEELMPX$

(b)

(c)

2. Bubble Sort

(a)

(b)

(c)

3. Show that $n^2 \in O(n^2 + 10n), n \geq 0$

4. Show that $n \notin \Omega(n^2)$