

Benjamin Weisman
Noah Solomon

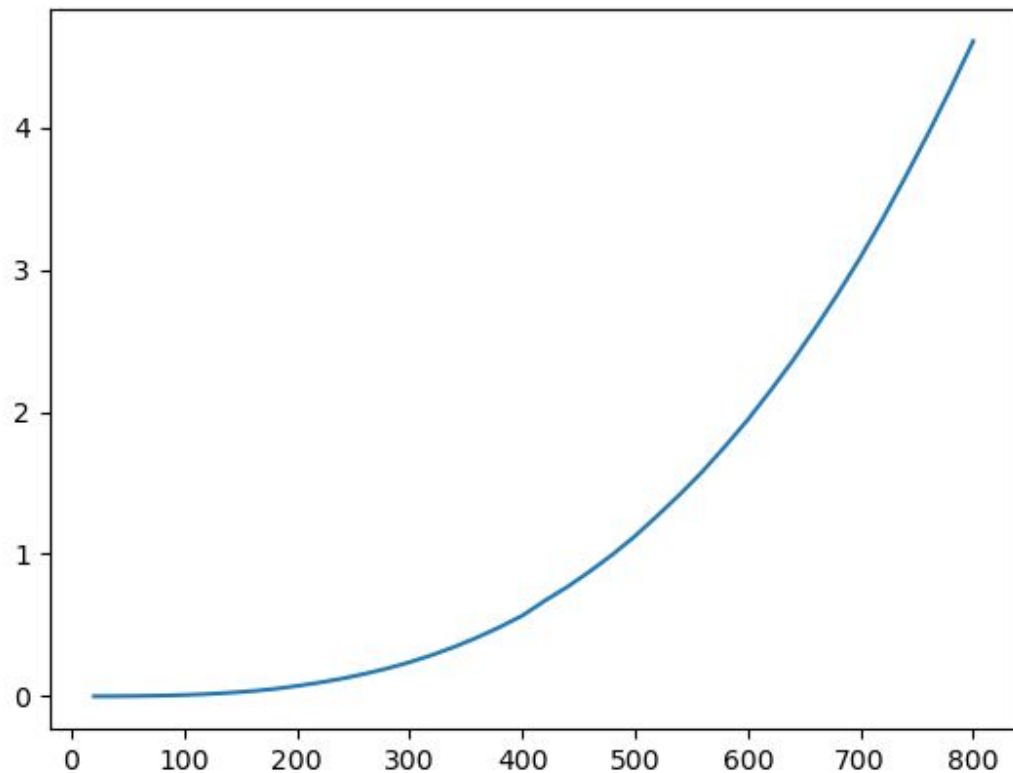
1a) What does the program/algorithm do?

The algorithm takes in a list and permutes it by checking to see if each index in the array is smaller than the next. It repeats this until the list is arranged from largest to smallest.

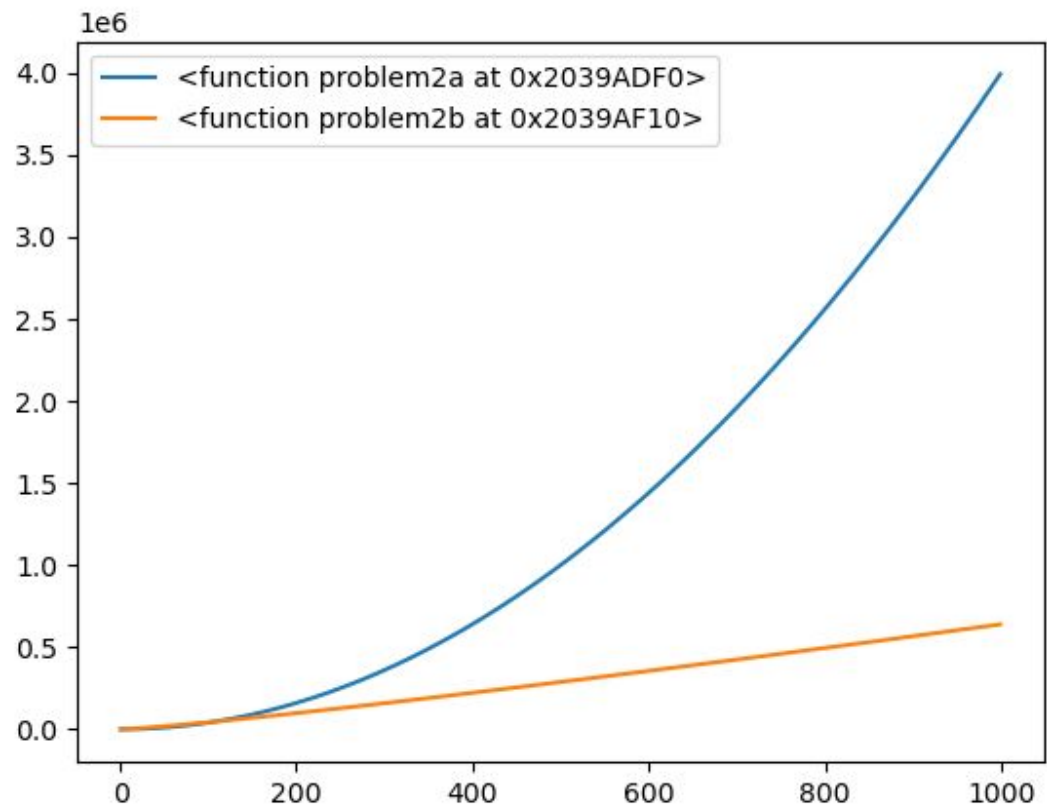
1b) How does the runtime of the algorithm scale on inputs of increasing size?

$O(n^2)$

1c)



2a)



2b) intersects on 107.14465773

2c) $R_2(n) \in o(R_1(n)) \Rightarrow \forall \epsilon > 0 \exists N \in \mathbb{N} \text{ s.t. } |R_2(n)| \leq \epsilon R_1(n) \forall n \geq N$

3b) Each function is little o of the function before it.

