

Homework 3 - Problem 1

Given Set A is the set containing a sequence of numbers
Let size be the size of Set A

Set A at size - 3 to A at size - 1 + A at size

for number in A from 1 to size - 4:

 Number at A = number at A + max(number at A + 2, number at A + 3)

Return A at 1

Time Estimate: $O(n)$

Explanation:

There is 1 for loop looping through each of the values, therefore it is $O(n)$ only.