## CPSC 335 - Section 07 Project 1: Lawnmower Problem

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## Pseudocode

Def Sort Alternate():

While Disks is not sorted:

Total Step Count: 4(n+1) Tu

Def Lawnmower():

While Disks is not sorted:

Total Step Count: 4n - 8 + 4n = 8n - 8 = 8(n-1) Tu

## Time Complexity Explanation:

For our Sort\_Alternate() Algorithm, We ended up with a step count of 4(n+1) Time Units, with n being our only variable, it would be a Time-Complexity of O(N).

For our Lawnmower Algorithm, We ended up with a step count of 8(n-1) Time Units, Having n again as our only variable, it would also be a Time-Complexity of O(N).

Screenshots



