1. Algorithms and Computation

□□□?

- input ,output□ □□ □□ □□

> “ □□ □□□, □ □□ □□ □□□□ □□□□ □□□ □□

□□□□□□?

- □□□□□□.

□□ □□ □□□□ □□□□ □□□□ □□□ □□□□ □□ □□□ □□□□?

□□□ □□□□? □ □□□□□□ □□□?

- □□□ □□□ □□□□
- Inductive Hypotesis: if first k students contain match alg returns a match before interviewing student k + 1
- □□□ □□
  - □□ □□ base case: □□□ □□ □□ □□□ n=0n = 0n=0 □□ n=1n = 1n=1□□ □□□ □□
  - □□ □□ Inductive Step:
    - □□□ □□: □□□ □□□ k□□□ □□□ □□□□ □□□□, □□ □□□□ k+1□□□ □□□ □□□ □□

□□□ □□□□□ □□□ □□□ □ □□?

- □□ □□□ □□□□□ □□□
- □□□ □□?
  - □□□□ □□ □□ □□□ □□□ □□ □□□ (IBM's research computer vs my computer)
- Don't measure time, instead count ops
- Expect performance to depend on size of our input

- O(n) upper bound Ω(n) lower bound θ both

32□□ CPU□□ □□ □□□ □ □□ □□□□ □□□ 32□□□□ □□□ □ □□□ □□□. □□ □□□ □□□ □ 2^32□ □□. □ 4GB□□. □□□, □□□□□ □□ □□ 4GI

Revision #1
Created 29 July 2024 12:41:44 by Yeonwoo Kim
Updated 29 July 2024 12:45:15 by Yeonwoo Kim