Gale-Shapley:

Worst-case: n^2 iterations - when all employers have identical preferences list

Best-case: n iterations - when all employers have distinct 1st place preferences

Big-O, Ω, Θ

g(n) ∈ O (f(n)) if ⇒ g(n) ≤ c · f(n)

g(n) ∈ Ω (f(n)) if ⇒ g(n) ≥ d · f(n),

g(n) ∈ Θ (f(n)) if ⇒ d · f(n) ≤ g(n) ≤ c · f(n)

- g(n) ∈ Ω (f(n)) **iff** f(n) ∈ O (g(n))
- g(n) ∈ Θ (f(n)) **iff** g(n) ∈ O (f(n)) and g(n) ∈ Ω (f(n))

iff g(n) ∈ O (f(n)) and f(n) ∈ O (g(n))

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Not published yet.
Last updated 8th October, 2024.
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