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 ⇒ $g(n) \leq c \cdot f(n)$

g(n) ∈ Ω (f(n)) if ⇒ $g(n) \geq d \cdot f(n)$,

g(n) ∈ Θ (f(n)) if ⇒ $d \cdot f(n) \leq g(n) \leq c \cdot f(n)$

- $g(n) \in \Omega (f(n))$ **iff** $f(n) \in O (g(n))$
- $g(n) \in \Theta (f(n))$ **iff** $g(n) \in O (f(n))$ and $g(n) \in \Omega (f(n))$

iff $g(n) \in O (f(n))$ and $f(n) \in O (g(n))$