

algorithm deferred acceptance(M_1, M_2, \dots, M_n : sequence of n lengthed sequences where i=2 to n is a preference list, i=1 is the subject; W_1, W_2, \dots, W_n : sequence of n lengthed sequences where i=2 to n is a preference list, i=1 is the subject)

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C, P, i = (), ∅, 0
while i ≠ n
    ∀1 ≤ δ ≤ n ∈ ℕ (
        Mδ1 ∉ {x | ⟨x, y⟩ ∈ C} ⇒ (
            (Mδ2 ∈ P ⇒
                ∀1 ≤ λ ≤ i ∈ ℕ(
                    (Cλ2 = Mδ2) ⇒ (ϕ = Cλ)
                )
                ∀1 ≤ ω ≤ n ∈ ℕ(
                    (Wω = Mδ2) ⇒ (ξ = ω)
                )
                ∀1 ≤ θ ≤ (n-1) ∈ ℕ((
                    (Wξ(θ+1) = ϕ) ⇒ (ϕ = Wξ(θ+1))) ∨ (
                    (Wξ(θ+1) = Mδ1) ⇒ (ϕ = Wξ(θ+1))
                ))
                Cλ = (ϕ, Mδ2)
            ) ∨ (
                i+ = 1
                Ci = ⟨Mδ1, Mδ2⟩
                P = P ∪ {Mδ2}
            )
            Mδ = Mδ1, Mδ3, Mδ4, ..., Mδ|Mδ|
        )
    )
return C

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