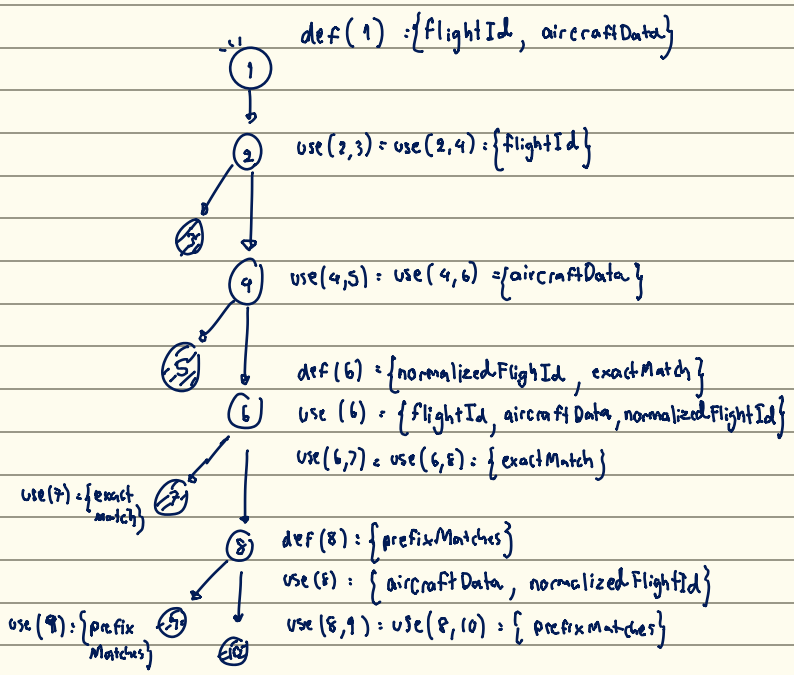
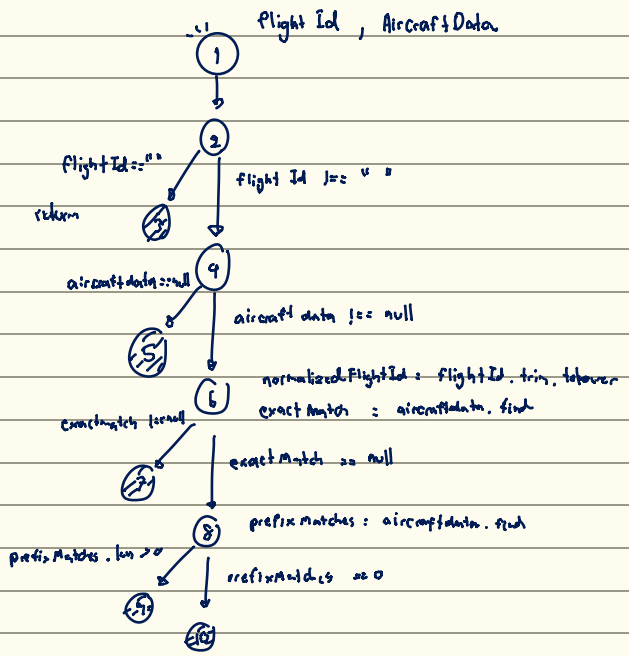




TR: {[1,2,3], [1,2,4], [1,2,4,6]}

du(1, 3, flightId)

du(1, 4, flightId)

du(1, 6, flightId)

TR: {[1,2,4,5], [1,2,4,6], [1,2,4,6,8]}

du(1,3, aircraftData)

du(1,6, aircraftData)

du(1,8, aircraftData)

TR = {[6,7], [6,8]}

du(6, 7, exactMatch)

du(6, 8, exactMatch)

TR: {[6,8]}

du(6, 6, normalizedFlightId)

du(6, 8, normalizedFlightId)

TR: {[8,9], [8,10]}

du(8, 9, prefixMatches)

du(8, 10, prefixMatches)

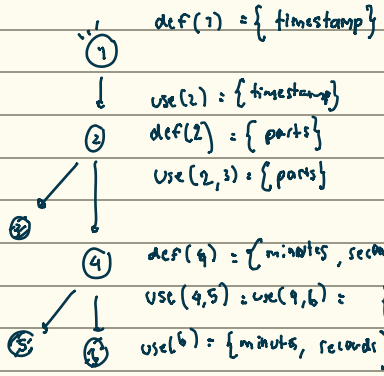
TR: {[1,2,3], [1,2,4], [1,2,4,5], [1,2,4,6], [1,2,4,6,8]
[6,7], [8,9], [8,10]}

SearchFlight

5 test cases

1. FlightId = " ", AD: mock — [1,2,3]
2. FlightId = "THA400", AD = null — [1,2,4,5]
3. FId = "THA400", AD, [.."THA400"] — [1,2,4,6,7]
4. FId: "THA", AD: [THA1, THA2] — [1,2,4,6,8,9]
5. FId: "THA", AD: [AIR] — [1,2,4,6,8,10]

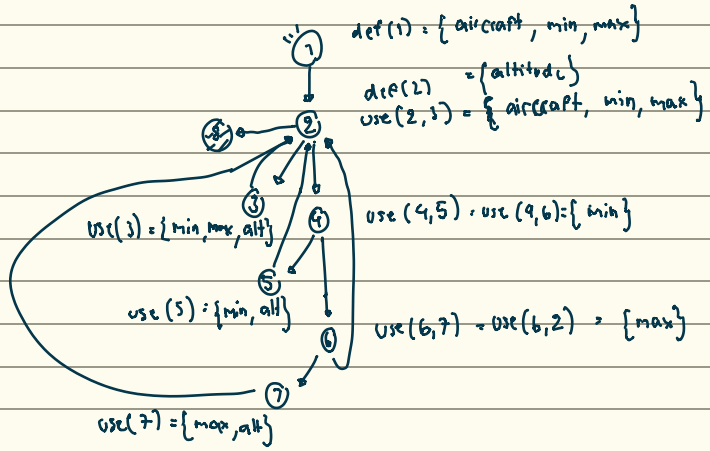
ParseTimestamp



3 test cases TR: {[1,2], [2,3], [4,5], [4,6]}

1. [1,2,3] → Ts = 200
2. [1,2,4,5] → Tr = xyz.50
3. [1,2,4,6] → Ts = 1.30

FilterAircraftByAltitude



du(1, 3, ac) : [1,2,3], [1,2,4,6,2,3]

du(1, 3, min) : [1,2,3]

du(1, 5, min) : [1,2,4,5]

du(1, 2, max) : [1,2], [1,2,4,6,2]

du(1, 3, max) : [1,2,3]

du(1, 7, max) : [1,2,4,6,7]

du(2, 3, alt) : [2,3]

du(2, 5, alt) : [2,4,5]

du(2, 7, alt : [2,4,7]

TR: {[1,2,3], [1,2,4,5], [1,2,4,6,7], [1,2,4,6,2]}

4 test cases

1. [1,2,3,2,8] : ac: [...], min: 5000, max: 10000
2. [1,2,4,5,2,8] : ac: [...], min: 5000, max: null
3. [1,2,4,6,7,2,8] : ac: [...], min: null, max: 10000
4. [1,2,4,6,2,8] : ac: [...], min: null, max: null