```
NOTES:
   ensure measurement unit match
CONSTRAINTS:
   general
       destinations: 30 (subject to change)
       aircraft door must be closed 15 min before departure
        - only occurs at designated lubs, required after 200 hours of flight
        - takes 1.5 days
        - each hub can service ≤ 3 aircraft at a time
       3-4 hobs serve as transit points
       flights ideally 75% full, but airfare charged assuming aircraft is 30% full
       number of gates is related to metro pop around airport
        - (I gate per 1 million people)
       - max 5 gates except for hubs (11 gates)
       airport hours: 5 AM to 1AM
   flying
       time zones
       only flights > 150 mi
       if a flight lands and gate unavailable \rightarrow wait on tarmac
       timing
        - start: leave gate
        - stop: gate arrival
       fly at 90% maximum airspeed
       note flying examples - handout middle page 4
    passengers
       passengers only board/disembark at gate
         - min 40 mins to turn around aircraft at gate
            - disembark: 15 min
           - clean/change crew: ID min
            - board: 15 min
            - (aptional) refeul: 10 min
       passengers in airport transit require at least 30 min to
           - disembark
            - walk to gate
            - board another flight
       .5% of population travels by air
       assume constant arrival rate
       passengers passing through airport is proportional to metro pop. (example in handout - top of page 5)
       investors leave terminal space at each airport are charged $2K per takeoff AND landing
       monthly leasing fees in handout - top of page 4 (includes maintenance)
       fixed price of feel at $6.19/gallon
       expects to take 2% of market share initially, growing to 5% by year end
```