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Aviation Industry

I want to fly from Austin to Chicago sometime during the month of March 2020. Exactly when is not important.   
During that trip, I want to visit some relatives during a brief overnight stay in Bloomington, IL.  
Output a dataset to the workunit where every record contains a sequence of flights that satisfies the following criteria, as well as the total amount of time spent (time flying as well as layover time)

* + Depart from Austin, TX airport (AUS)
  + Arrive at the Bloomington/Normal airport in Illinois (BMI)
    - There will be one layover
      * For the connecting flight, I want to stay on the same airline because I want my bags to be transferred automatically
      * The layover time should be no less than 1 hour and no more than 2 hours
  + The very next day, before 10am, depart from the Bloomington/Normal airport and fly to O’Hare International Airport in Chicago (ORD)
    - The airline used on this day does not have to be the same as the day before
  + Only the record(s) matching the minimum sum total flight time + layover should be shown

**Hints**

* Filter down to the month you are after
* Think hard about how GSEC represents available flight dates
* Keep in mind what your final dataset should look like
* Since you are building connections, you need to join GSEC with itself
* Keep in mind your layover time is between one to two hours
* Your operation day should be same day
* We are staying with same Carrier for the first two flights
* Calculate depart or arrival time in min:

depart\_minutes\_after\_midnight

:= ((UNSIGNED1)LEFT.DepartTimePassenger[1..2] \* 60 +

(UNSIGNED1)LEFT.DepartTimePassenger[3..4]);