

CSE 341 PROLOG HOMEWORK REPORT

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PART 1:

flight(a,b) takes two parameters as cities and finds if there is a valid flight between them it produces either true or false.

In order to find possible routes between cities we need to keep track of visited cities via visited lists in interface **route(start,end)** takes two parameters as start and finish but the function calls **connectedEdges** function with visited list so it can determine all connected paths avoiding cycles.

PART 2:

In my implementation **sroute** finds the shortest path between 2 cities then summing them.

PART 3:

3.1: Inputs are Student and Class and output is Lecture Time.

3.2: Input is classroom and shows when the lesson starts in that classroom.

3.3: Takes 2 parameters, lecture names and shows if there are any conflict in time and class wise.

3.4: Takes parameter as 2 students and shows if these students are in same class or not.

PART4:

4.1: Finds if the set contains an element via member function.

4.2: I couldn't implement union function because I couldn't handle unsorted lists while recursing.

4.3: Finds intersection of two sets via memberchk function.

4.4: Finds if two sets are equal or not. (It is not necessary that lists need to have same order.) Lists maybe containing same element but not in true order therefore sort them and "and " them

Note: You can find detailed explanation in source code...