

There is a car with `capacity` empty seats. The vehicle only drives east (i.e., it cannot turn around and drive west).

You are given the integer `capacity` and an array `trips` where `trip[i] = [numPassengersi, fromi, toi]` indicates that the  $i^{\text{th}}$  trip has `numPassengersi` passengers and the locations to pick them up and drop them off are `fromi` and `toi` respectively. The locations are given as the number of kilometers due east from the car's initial location.

Return `true` if it is possible to pick up and drop off all passengers for all the given trips, or `false` otherwise.

#### Example 1:

**Input:** `trips = [[2,1,5],[3,3,7]]`, `capacity = 4`  
**Output:** `false`

#### Example 2:

**Input:** `trips = [[2,1,5],[3,3,7]]`, `capacity = 5`  
**Output:** `true`

#### Constraints:

- `1 <= trips.length <= 1000`
- `trips[i].length == 3`
- `1 <= numPassengersi <= 100`
- `0 <= fromi < toi <= 1000`
- `1 <= capacity <= 105`