

## DSE-6A

- ①:- A trip would have equal or less number of passengers than the no of seats its coach has.
- ②:- The numbers of all tickets generated by the vending machine ~~to~~ are +ive numbers and Unique, (isUnique(element)) is a method which checks every element is unique in a collection.
- ③:- For all trips the origin is not equal to its destination.
- ④:- The type of coach should be same as the type of the trip.
- ⑤:- For any trip the number of passengers of age less than 10 are maximum 5.



①:- context Trip

inv : PassengerLimit :

self.passenger  $\rightarrow$  size()  $\leq$  self.coach.no of seats

②:- context Vending Machine

inv : self.tickets  $\rightarrow$  IsUnique ( tick | tick.number ) and  
for All ( tick | ~~tick~~  $\geq 0$  )  
tick.number



③:-

context Trip

inv: self.tripOrigin <> self.tripDestination

④:-

context Trip

inv: self.~~Triptype~~Triptype = self.coach.type

(5) Passenger Age limit

Content Trip

inw Age limit : self . passengers  $\rightarrow$  select (p | p . age  $\geq 10$ )  
 $\rightarrow$  size ()  $\leq 5$