This program will allow passengers to book seats, order tickets, and board the airplane after doing so, as long as free seats are available. It will also allow them to order food and drinks while onboard, as long as they are in stock and they meet the age-requirements for the particular items ordered.

Passenger tries to book a seat

If “there are seats available”

booking is accepted. Passenger is assigned a seat.

Else

Booking is declined.

Passenger tries to buy a ticket

If “the passenger has enough money”

Accept purchase. Passenger is given a ticket.

Else

Decline purchase. Passenger gets a message about not having enough money.

Passenger tries to order food

If “food is in stock”

Accept order. Ordered food is delivered by Staff.

Else

Decline order. Print a message about the food being out of stock.

Passenger tries to order a drink

If “drink is in stock”

If “Drink is alcoholic”

If “passenger is an adult”

Accept order. Passenger is given the drink of their choice.

Else

Decline order.

Else

If passenger has ordered less than 5 of the same drink

Accept order. Passenger is given the drink of their choice.

Else

Decline order.

Else

Decline order. Print a message about the drink being of stock.

Ready for takeoff?

If “Number of boarded passengers is more than 10% of capacity”

Proceed to takeoff

Else

Cancel flight. Print a message about the amount of passengers being too low. End program.