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.

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.

Passenger tries to book a seat

If “there are seats available”

Booking is accepted. Passenger is assigned a seat.

Else

Booking is declined. End program.

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. End program.

Passenger tries to board the plane

If “The passenger has a ticket”

Accept Boarding.

Else

Decline boarding. End program.

Passenger tries to order food

If “food is in stock”

Accept order. Ordered food is delivered by a randomly selected Staff-member.

Else

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

Passenger tries to order a drink

If “passenger has ordered less than 5 of the same drink”

If “Drink is alcoholic”

If “passenger is an adult”

Accept order. Passenger is given the drink of their choice. Ordered drink is delivered by a randomly selected Staff-member.

Else

Decline order.

Else

Accept order. Passenger is given the drink of their choice. Ordered drink is delivered by a randomly selected Staff-member.

Else

Decline order. Print a message a about 5 drinks being the limit.