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 number 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 randomly selected 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 wants to order food

If “Passenger wants to order food from the children’s menu

If ”Passenger’s age is below 18”

If “food is in stock”

{Passenger may order from the children’s menu}

Else

{Decline ordering}

Else

{Decline ordering form the children’s menu.}

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 about 5 drinks being the limit.}