Rebecca's One-Stop Flight Code

```c
//"Rebecca Wells"
//1 stop flight function

#include <stdio.h>
#include <string.h>
//#include "airports.h"

int one_stop_flight(int choice)
{
  int route_id, id, input, flight_number, d_hour, d_mins, a_hour, a_mins, d_hour_stop, d_mins_stop, a_hour_stop, a_mins_stop, z, layover, b;
  char departure_input[4], arrival_input[4], stop_code[4], days[7], departure_city[50], arrival_city[50], stop_city[50], arrival_time[7], departure_time[7], a_letter, d_letter, travel_days[10], airport_code[4], city[50], arrival_airport[4], departure_airport[4], a_letter_stop, d_letter_stop;
  FILE *airports, *flights, *routes;

  printf("Enter departure and arrival airport codes: ");
  scanf("%s %s", departure_input, arrival_input);
  flights = fopen("flights.txt", "r");
  airports = fopen("airports.txt", "r");
  routes = fopen("routes.txt", "r");

  while(fscanf(airports, "%s  %50[^\n]", airport_code, city) != EOF)   //scan for the departure code but not to the arrival code
    {
      if(airport_code != departure_input || airport_code != arrival_input)
        {
          while(fscanf(routes, "%d.  %s %s", &route_id, departure_airport, arrival_airport) != EOF)  ///finds the name of the city of the departure airport
            {
              if(departure_input[0]==departure_airport[0] && departure_input[1]==departure_airport[1] && departure_input[2]==departure_airport[2])
                {
                  if(arrival_airport[0] != arrival_input[0] || arrival_airport[1] != arrival_input[1] || arrival_airport[2] != arrival_input[2])
                    {
                      strcpy(stop_code, arrival_airport);
                      rewind(routes);
departure_airport[0]=' ';
departure_airport[1]=' ';
departure_airport[2]=' ';
arrival_airport[0]=' ';
arrival_airport[1]=' ';
arrival_airport[2]=' ';
while(fscanf(routes, "%d.  %s %s", &route_id, departure_airport, arrival_airport) != EOF)  //now searches for the place where the stop is the
  {                                                                                        //depart airport and the arrival input is correct
    if(stop_code[0]==departure_airport[0] && stop_code[1]==departure_airport[1] && stop_code[2]==departure_airport[2] && arrival_input[0]==arrival_airport[0] && arrival_input[1]==arrival_airport[1] && arrival_input[2]==arrival_airport[2])
      {
        id=route_id;
        printf("Enter a day of the week (1-7, or 0 for all days):");
        scanf("%d", &input);

        //now depending on the day entered, program is suppose to run through each option that was entered, find where the id is similar, then
        //check the days, finally check the time that is involved in the stop to make sure the layover is the correct time
        //end with printing out the message if you find a suitable one stop flight

        if(input==1)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, d_letter, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==1)
                          {
                            //if(check_days() == TRUE)
                              {
                                // check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d.m. %s, %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, (days), d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        //if day entered is 2

        if(input==2)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, d_letter, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==2)
                          {
                           // if(check_days() == TRUE)
                              {
                                //check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, (days), d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        //if day entered is 3

        if(input==3)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, d_letter, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==3)
                          {
                            //if(check_days() == TRUE)
                              {
                                //check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        //if day entered is 4

        if(input==4)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, d_letter, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==4)
                          {
                           // if(check_days() == TRUE)
                              {
                                //check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        //if day entered is 5

        if(input==5)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, d_letter, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==5)
                          {
                           // if(check_days() == TRUE)
                              {
                                //check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        //if day entered is 6

        if(input==6)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==6)
                          {
                           // if(check_days() == TRUE)
                              {
                                //check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        //if day entered is 7

        if(input==7)
          {
            while(fscanf(flights, "%d %d %d:%d%c %d:%d%c %s", flight_number, route_id, d_hour, d_mins, d_letter, a_hour, a_mins, a_letter, days) != EOF)
              {
                if(id==route_id)
                  {
                    while(z<7)
                      {
                        if(days[z]==7)
                          {
                           // if(check_days() == TRUE)
                              {
                                //check_time();
                                if(layover >= 60 && layover <= 120)
                                  {
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour, d_mins, d_letter, departure_city, departure_input, a_hour_stop, a_mins_stop, a_letter_stop, stop_city, stop_code);
                                    printf("Flight %d (%s)\n    %d:%d%c.m. %s (%s)\n    %d:%d%c.m. %s (%s)\n", flight_number, travel_days, d_hour_stop, d_mins_stop, d_letter_stop, stop_city, stop_code, a_hour, a_mins, a_letter, arrival_city, arrival_input);
                                  }
                              }
                          }
                      }
                  }
              }
          }

        /* if(input==0)
      {
        while(fscanf(flights, "%d, %d, (time) (time) (days)", flight_number, route_id, departure_time, arrival_time, (days)) != EOF)
          {
            if(id==route_id)
              {
                if(*days has daily*)
                  {
                    printf("Flight %d (%s)\n    %d:%d.m. %s, %s (%s)\n    %d:%d.m. %s, %s (%s)\n", flight_number, (days), d_hour, d_mins, departure_city, departure_state, departure_input, a_hour, a_mins, stop_city, stop_state, stop_code);
                    printf("Flight %d (%s)\n    %d:%d.m. %s, %s (%s)\n    %d:%d.m. %s, %s (%s)\n", flight_number, (days), d_hour_stop, d_mins_stop, stop_city, stop_state, stop_code, a_hour_stop, a_mins_stop, arrival_city, arrival_state, arrival_input);
                  }
                else
                  {
                    printf("Route %s to %s has no 1-stop flights on the specified days\n", departure_input, arrival_input);
                  }
              }
          }
        }*/
                      }
                  }
              }
          }
      }
    else
      {
        printf("Either airport %s or %s doesn't exist", departure_input, arrival_input);
      }
  }
 return;
}
```