#include <stdio.h>

#include <string.h>

#include <ctype.h>

#define MAX\_ENTRIES 10

#define PHONE\_LENGTH 11

#define NAME\_LENGTH 50

#define LOCATION\_LENGTH 50

typedef struct {

char phoneNumber[PHONE\_LENGTH];

char location[LOCATION\_LENGTH];

} DirectoryEntry;

int isValidIndianPhoneNumber(char \*phone) {

if (strlen(phone) != 10) {

return 0;

}

for (int i = 0; phone[i] != '\0'; i++) {

if (!isdigit(phone[i])) {

return 0;

}

}

return 1;

}

int searchDirectory(DirectoryEntry directory[], int size, char \*phone, char \*location) {

for (int i = 0; i < size; i+

+) {

if (strcmp(directory[i].phoneNumber, phone) == 0) {

strcpy(location, directory[i].location);

return 1;

}

}

return 0;

}

int main() {

DirectoryEntry directory[MAX\_ENTRIES] = {

{"9370607739", "Delhi"},

{"8605303098", "Mumbai"},

{"8668337547", "Kolkata"},

{"9090909090", "Bangalore"},

{"7070707070", "Chennai"},

{"8080808080", "Nagpur"},

{"6060606060", "Pune"}

};

int directorySize = 7;

char

customerName[NAME\_LENGTH];

char inputPhone[PHONE\_LENGTH];

char location[LOCATION\_LENGTH];

printf("Welcome to DELIVERY EXPRESS INDIA\n");

printf("Enter the customer's name: ");

fgets(customerName, NAME\_LENGTH, stdin);

customerName[strcspn(customerName, "\n")] = '\0';

printf("Enter the customer's phone number: ");

scanf("%s", inputPhone);

if (!isValidIndianPhoneNumber(inputPhone)) {

printf("Invalid

phone number. Please enter a valid 10-digit Indian phone number.\n");

return 1;

}

if (searchDirectory(directory, directorySize, inputPhone, location)) {

printf("\nDelivery Details:\n");

printf("Customer Name: %s\n", customerName);

printf("Phone Number: %s\n", inputPhone);

printf("Delivery Location: %s\n", location);

printf("Delivery

Status: Scheduled for dispatch\n");

} else {

printf("\nSorry no such phone number found in directory.Cant locate the location .\n");

}

return 0;

}