#include <stdio.h>

#include <string.h>

#define MAX\_STUDENTS 11

struct Student {

int id;

char name[50];

int age;

char address[100];

};

int main() {

struct Student students[MAX\_STUDENTS];

int num\_students;

printf("Enter the number of students (up to %d): ", MAX\_STUDENTS);

scanf("%d", &num\_students);

if (num\_students > MAX\_STUDENTS) {

printf("Error: Too many students.\n");

return 1;

}

printf("Enter student details:\n");

for (int i = 0; i < num\_students; i++) {

printf("Student %d:\n", i + 1);

printf("ID: ");

scanf("%d", &students[i].id);

printf("Name: ");

scanf("%s", students[i].name);

printf("Age: ");

scanf("%d", &students[i].age);

if (students[i].age < 18 || students[i].age > 24) {

printf("Error: Age must be between 18 and 24.\n");

return 1;

}

printf("Address: ");

scanf("%s", students[i].address);

}

int search\_id;

printf("Enter the ID of the student to search: ");

scanf("%d", &search\_id);

int found = 0;

for (int i = 0; i < num\_students; i++) {

if (students[i].id == search\_id) {

printf("Student found:\n");

printf("ID: %d\n", students[i].id);

printf("Name: %s\n", students[i].name);

printf("Age: %d\n", students[i].age);

printf("Address: %s\n", students[i].address);

found = 1;

break;

}

}

if (!found) {

printf("Student with ID %d not found.\n", search\_id);

}

return 0;

}