Rajalakshmi Engineering College

Name: Sajine Santhakumar
Email: 240701459@rajalakshmi.edu.in
Roll no: 240701459
Phone: 9952076750
Branch: REC
Department: I CSE FE
Batch: 2028
Degree: B.E - CSE

Scan to verify results

NeoColab_REC_CS23231_DATA STRUCTURES

REC_DS using C_Week 7_COD_Question 4

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Develop a program using hashing to manage a fruit contest where each fruit is assigned a unique name and a corresponding score. The program should allow the organizer to input the number of fruits and their names with scores.

Then, it should enable them to check if a specific fruit, identified by its name, is part of the contest. If the fruit is registered, the program should display its score; otherwise, it should indicate that it is not included in the contest.

Input Format

The first line consists of an integer N, representing the number of fruits in the contest.

The following N lines contain a string K and an integer V, separated by a space, representing the name and score of each fruit in the contest.

The last line consists of a string T, representing the name of the fruit to search for.

Output Format

If T exists in the dictionary, print "Key "T" exists in the dictionary.".

If T does not exist in the dictionary, print "Key "T" does not exist in the dictionary.".

Refer to the sample outputs for the formatting specifications.

Sample Test Case

Input: 2
banana 2
apple 1
Banana

Output: Key "Banana" does not exist in the dictionary.

Answer

```
#include <stdio.h>
#include <string.h>
#define MAX 15
#define NAME_LEN 21
typedef struct {
   char name[NAME_LEN];
   int score;
} Fruit;
int main() {
   int N, i, found = 0;
   Fruit fruits[MAX];
   char search[NAME_LEN];
   scanf("%d", &N);
   for (i = 0; i < N; i++) {
      scanf("%s %d", fruits[i].name, &fruits[i].score);}
   scanf("%s", search);
```

```
for (i = 0; i < N; i++) {
    if (strcmp(fruits[i].name, search) == 0) {
        found = 1;
        break;}}
if (found) {
    printf("Key \"%s\" exists in the dictionary.\n", search);
} else {
    printf("Key \"%s\" does not exist in the dictionary.\n", search);}
return 0;}
```

Status : Correct **Marks : 10/10**