

Rajalakshmi Engineering College

Name: RAKSHITHA R
Email: 240701418@rajalakshmi.edu.in
Roll no: 240701418
Phone: 7305274265
Branch: REC
Department: I CSE FD
Batch: 2028
Degree: B.E - CSE

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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

```
// You are using GCC
#include <stdio.h>
#include <string.h>
#define MAX_FRUITS 15
typedef struct {
    char name[20];
    int score;
} Fruit;

int main() {
    int N;
    scanf("%d", &N);
    Fruit fruits[MAX_FRUITS];
    for (int i = 0; i < N; i++) {
        scanf("%s %d", fruits[i].name, &fruits[i].score);
    }
}
```

```
char searchFruit[20];
scanf("%s", searchFruit);
int found = 0, score = 0;
for (int i = 0; i < N; i++) {
    if (strcmp(fruits[i].name, searchFruit) == 0) {
        found = 1;
        score = fruits[i].score;
        break;
    }
}

if (found) {
    printf("Key \"%s\" exists in the dictionary.\n", searchFruit);
} else {
    printf("Key \"%s\" does not exist in the dictionary.\n", searchFruit);
}

return 0;
}
```

Status : Correct

Marks : 10/10