

Rajalakshmi Engineering College

Name: santhosh kumar
Email: 240801303@rajalakshmi.edu.in
Roll no: 240801303
Phone: 7904117179
Branch: REC
Department: I ECE AF
Batch: 2028
Degree: B.E - ECE

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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 15
#define MAX_LEN 20

typedef struct {
    char key[MAX_LEN];
    int value;
} Fruit;

int main() {
    int N;
    scanf("%d", &N);
```

```
Fruit fruits[MAX];
for (int i = 0; i < N; i++) {
    scanf("%s %d", fruits[i].key, &fruits[i].value);
}

char search_key[MAX_LEN];
scanf("%s", search_key);

int found = 0;
for (int i = 0; i < N; i++) {
    if (strcmp(fruits[i].key, search_key) == 0) {
        found = 1;
        break;
    }
}

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

return 0;
}
```

Status : Correct

Marks : 10/10