

Rajalakshmi Engineering College

Name: SRI DURGA R
Email: 241801273@rajalakshmi.edu.in
Roll no: 241801273
Phone: 9791082217
Branch: REC
Department: I AI & DS FD
Batch: 2028
Degree: B.E - AI & DS

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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 LEN 20
```

```
int main() {
    int N, V;
    char K[LEN], T[LEN];
    char names[MAX][LEN];
    int scores[MAX], found = 0;
    scanf("%d", &N);
    for (int i = 0; i < N; i++) {
        scanf("%s %d", names[i], &scores[i]);
    }
}
```

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

Status : Correct

Marks : 10/10