

# Rajalakshmi Engineering College

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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
```

```
typedef struct {
    char name[20];
    int score;
} Fruit;
```

```
int main() {
    int N, i, found = 0;
    Fruit fruits[MAX];
    char search[20];
```

```
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