

# 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**

```
#include <stdio.h>
#include <string.h>

typedef struct {
    char key[50];
    int value;
} Fruit;

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

    Fruit fruits[15];
    for (int i = 0; i < N; i++) {
        scanf("%s %d", fruits[i].key, &fruits[i].value);
    }
}
```

```
char query[50];
scanf("%s", query);

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

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

return 0;
}
```

**Status :** Correct

**Marks : 10/10**