

# Rajalakshmi Engineering College

Name: Yadhu Nandhana R  
Email: 241801321@rajalakshmi.edu.in  
Roll no: 241801321  
Phone: 7448879488  
Branch: REC  
Department: I AI & DS FD  
Batch: 2028  
Degree: B.E - AI & DS

Scan to verify results



## 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**

```
int keyExists(KeyValuePair* dictionary, int size, const char* key) {  
    for (int i = 0; i < size; i++) {  
        if (strcmp(dictionary[i].key, key) == 0) {  
            return 1;  
        }  
    }  
    return 0;  
}
```

```
int getValueForKey(KeyValuePair* dictionary, int size, const char* key) {  
    for (int i = 0; i < size; i++) {  
        if (strcmp(dictionary[i].key, key) == 0) {  
            return dictionary[i].value;  
        }  
    }  
}
```

```
} return -1;
```

**Status :** Correct

**Marks :** 10/10