

# Rajalakshmi Engineering College

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Batch: 2028

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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 : 0

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

```
#define MAX_KEY_LENGTH 100
```

```
typedef struct {
    char key[MAX_KEY_LENGTH];
    int value;
} KeyValuePair;
```

```
// Function to check if a key exists in the dictionary
int keyExists(KeyValuePair* dict, int size, char* target) {
    for (int i = 0; i < size; i++) {
        if (strcmp(dict[i].key, target) == 0) {
```

```
    return 1; // Key exists  
  }  
  }  
  return 0; // Key does not exist  
}
```

**Status : Wrong**

**Marks : 0/10**