# Rajalakshmi Engineering College

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Branch: REC

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Batch: 2028

Degree: B.E - CSE



## 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_FRUITS 15
typedef struct {
   char name[20]; // Maximum fruit name length
   int score;
} Fruit;
void searchFruit(Fruit fruits[], int count, char *key) {
   int found = -1;
   for (int i = 0; i < count; i++) {
     if (strcmp(fruits[i].name, key) == 0) {
        found = i:
```

```
break;
  if (found != -1) {
    printf("Key \"%s\" exists in the dictionary.\n", key);
  } else {
    printf("Key \"%s\" does not exist in the dictionary.\n", key);
}
int main() {
  int N;
  scanf("%d", &N);
  Fruit fruits[MAX_FRUITS];
  for (int i = 0; i < N; i++) {
    scanf("%s %d", fruits[i].name, &fruits[i].score);
  char searchKey[20];
  scanf("%s", searchKey);
  searchFruit(fruits, N, searchKey);
  return 0;
Status: Correct
                                                                        Marks: 10/10
```

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