# Rajalakshmi Engineering College

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**Branch: REC** 

Department: I AIML AD

Batch: 2028

Degree: B.E - AI & ML



## 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

int score;

int main() {
 int n;

} Fruit;

```
Input: 2
banana 2
apple 1
Banana
Output: Key "Banana" does not exist in the dictionary.

Answer

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

#define MAX 15
#define NAME_LEN 21

typedef struct {
    char name[NAME_LEN];
```

scanf("%d", &n);
Fruit fruits[MAX];

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        scanf("%s %d", fruits[i].name, &fruits[i].score);

ar search **:
   // Read fruit names and scores
      for (int i = 0; i < n; i++) {
      char search[NAME_LEN];
      scanf("%s", search);
      int found = 0;
      // Search for the fruit by name
      for (int i = 0; i < n; i++) {
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       if (strcmp(fruits[i].name, search) == 0) {
           found = 1;
           break;
        }
      if (found) {
         printf("Key \"%s\" exists in the dictionary.", search);
      } else {
         printf("Key \"%s\" does not exist in the dictionary.", search);
      }
      return 0;
Status : Correct
                                                                           Marks: 10/10
```

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