Rajalakshmi Engineering College

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Branch: REC

Department: I AI & ML FC

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

```
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_FRUITS 15
struct Fruit {
  char name[20];
  int score;
};
int findFruit(struct Fruit fruits[], int size, char *search) {
  for (int i = 0; i < size; i++) {
     if (strcmp(fruits[i].name, search) == 0) {
      printf("Key \"%s\" exists in the dictionary.\n", search);
       return 1;
```

```
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return 0;
       printf("Key \"%s\" does not exist in the dictionary.\n", search);
     int main() {
       int N;
       scanf("%d", &N);
       if (N < 1 || N > MAX_FRUITS) {
          printf("Invalid number of fruits.\n");
          return 1;
       }
         scanf("%s %d", fruits[i].name, &fruits[i].score);

ar search[20];
anf("% > "
       struct Fruit fruits[MAX_FRUITS];
for (int i = 0; i < N; i++) {
       char search[20];
       scanf("%s", search);
       findFruit(fruits, N, search);
       return 0;
     }
     Status: Correct
                                                                             Marks: 10/10
```

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