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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 : 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 15
#define LEN 20

typedef struct {
    char name[LEN];
    int score;
} Fruit;

int main() {
    int N;
    scanf("%d", &N);

    Fruit fruits[MAX];
```

```
    for (int i = 0; i < N; i++) {
        scanf("%s %d", fruits[i].name, &fruits[i].score);
    }

    char target[LEN];
    scanf("%s", target);

    int found = 0;

    for (int i = 0; i < N; i++) {
        if (strcmp(fruits[i].name, target) == 0) {
            found = 1;
            break;
        }
    }

    if (found) {
        printf("Key \"%s\" exists in the dictionary.\n", target);
    } else {
        printf("Key \"%s\" does not exist in the dictionary.\n", target);
    }

    return 0;
}
```

Status : Correct **Marks : 10/10**