Rajalakshmi Engineering College

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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

```c
// You are using GCC
#include<stdio.h>
#include<string.h>
#define MAX 15

typedef struct{
    char name[20];
    int score;
}Fruit;

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

int searchFruit(Fruit fruits[], int n , char*key){
```

```c
    for (int i=0; i<n;i++){
        if(strcmp(fruits[i].name,key)==0){
            printf("Key \"%s\" exists in the dictionary.\n",key);
            return 1;
        }
    }
    printf("Key \"%s\" does not exist in the dictionary.\n",key);
    return 0;
}
int main(){
    int n;
    scanf("%d",&n);

    Fruit fruits[MAX];
    insertFruits(fruits,n);

    char key[20];
    scanf("%s",key);

    searchFruit(fruits, n ,key);

    return 0;
}
```

Status : Correct   *Marks : 10/10*