Rajalakshmi Engineering College

Name: Sanjai E
Email: 241801242@rajalakshmi.edu.in
Roll no: 241801242
Phone: 9363574090
Branch: REC
Department: I AI & DS FD
Batch: 2028
Degree: B.E - AI & DS

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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

```
// You are using GCC
#include<iostream>
#include<unordered_map>
#include<string>
using namespace std;
int main(){
    int n;
    cin>>n;
    unordered_map<string,int>fruitScores;
    string fruitName;
    int score;
    for(int i=0;i<n;++i){
        cin>>fruitName>>score;
        fruitScores[fruitName]=score;
    }
    string searchFruit;
```

```
    cin>>searchFruit;
    if(fruitScores.find(searchFruit)!=fruitScores.end()){
        cout<<"Key\""<<searchFruit<<"\"exists in the dictionary."<<endl;
    }else{
        cout<<"Key\""<<searchFruit<<"\"does not exist in the dictionary."<<endl;
    }
    return 0;
}
```

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