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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

```python
# You are using Python
# Input number of fruits
N = int(input())

# Initialize dictionary to store fruit names and scores
fruit_dict = {}

# Input each fruit name and its score
for _ in range(N):
    K, V = input().split()
    fruit_dict[K] = int(V)

# Input the fruit name to be searched
T = input()

# Check if the fruit exists in the dictionary
```

```
if T in fruit_dict:
    print(f'Key "{T}" exists in the dictionary.')
else:
    print(f'Key "{T}" does not exist in the dictionary.')
```

Status : Correct   *Marks : 10/10*