

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

You are using Python

```
def manage_fruit_contest(n, fruit_data, target):
```

```
    fruit_dict = dict(fruit_data) # Store fruit names as keys and scores as values
```

```
    if target in fruit_dict:
```

```
        print(f'Key "{target}" exists in the dictionary.')
```

```
    else:
```

```
        print(f'Key "{target}" does not exist in the dictionary.')
```

Read input values

```
N = int(input())
```

```
fruit_data = [input().split() for _ in range(N)]
```

```
fruit_data = [(name, int(score)) for name, score in fruit_data] # Convert score to integer
```

```
target_fruit = input().strip()
```

```
# Call the function to check fruit existence  
manage_fruit_contest(N, fruit_data, target_fruit)
```

Status : Correct

Marks : 10/10