	Input	Expected	Got	
✔	GOD	GOD is worth 5 points.	GOD is worth 5 points.	✔
✔	REC	REC is worth 5 points.	REC is worth 5 points.	✔

Ex. No. : 8.4 **Date: 25.05.24**

Register No.: 231901035 **Name: Nitheesh K K**

Uncommon words

A sentence is a string of single-space separated words where each word consists only of lowercase letters.A word is uncommon if it appears exactly once in one of the sentences, and does not appear in the other sentence.

Given two sentences s1 and s2, return a list of all the uncommon words. You may return the answer in any order.

Example 1:

Input: s1 = "this apple is sweet", s2 = "this apple is sour"

Output: ["sweet","sour"]

Example 2:

Input: s1 = "apple apple", s2 = "banana"

Output: ["banana"]

Constraints:

1 <= s1.length, s2.length <= 200

s1 and s2 consist of lowercase English letters and spaces.

s1 and s2 do not have leading or trailing spaces.

All the words in s1 and s2 are separated by a single space.

Note:

Use dictionary to solve the problem

For example:

Input	Result
this apple is sweet this apple is sour	sweet sour

Program:

```
s1 = input().split()
s2 = input().split()
d = {}
for i in s1:
    if i not in d:
        d[i] = 1
    else:
        d[i] += 1
for i in s2:
    if i not in d:
        d[i] = 1
    else:
        d[i] += 1
for i in d:
    if d[i] == 1:
        print(i, end=" ")
```


	Input	Expected	Got	
✔	this apple is sweet this apple is sour	sweet sour	sweet sour	✔
✔	apple apple banana	banana	banana	✔

Ex. No. : 8.5 **Date: 25.05.24**

Register No.: 231901035 **+Name: Nitheesh K K**

Winner of Election

Given an array of names of candidates in an election. A candidate name in the array represents a vote cast to the candidate. Print the name of candidates received Max vote. If there is tie, print a lexicographically smaller name.

Examples:

Input : votes[] = {"john", "johnny", "jackie",
"johnny", "john", "jackie",
"jamie", "jamie", "john",
"johnny", "jamie", "johnny",
"john"};
Output : John
We have four Candidates with name as 'John', 'Johnny', 'jamie', 'jackie'. The candidates John and Johny get maximum votes. Since John is alphabetically smaller, we print it.
Use dictionary to solve the above problem

Sample Input:
10
John

John
Johny
Jamie
Jamie
Johny
Jack
Johny
Johny
Jackie

Sample Output:
Johny

For example:

Input	Result
10 John John Johny Jamie Jamie Johny Jack Johny Johny Jackie	Johny

Program:

```
n=int(input())

d={}

for i in range(n):

    s=input()

    if s not in d:

        d[s]=1

    else:

        d[s]+=1
```

```
h=0
for i in d:
    if h<d[i]:
        h=d[i]
        j=i
print(j)
```

	Input	Expected	Got	
✔	10 John John Johny Jamie Jamie Johny Jack Johny Johny Jackie	Johny	Johny	✔
✔	6 Ida Ida Ida Kiruba Kiruba Kiruba	Ida	Ida	✔

09- Functions

Ex. No. : 9.1 **Date: 01.06.24**

Register No.: 231901035 **Name: Nitheesh K K**

Christmas Discount

An e-commerce company plans to give their customers a special discount for Christmas. They are planning to offer a flat discount. The discount value is calculated as the sum of all the prime digits in the total bill amount.

Write an python code to find the discount value for the given total bill amount.

Constraints

$1 <= orderValue < 10e^{100000}$

Input

The input consists of an integer orderValue, representing the total bill amount.

Output

Print an integer representing the discount value for the given total bill amount.

Example Input

578

Output

12

For example:

Test	Result
print(christmasDiscount(578))	12

Program:

```
def is_prime_digit(digit):
    return digit in [2,3,5,7]
def christmasDiscount(n):
    s=discount=0
    prime_digitis=[2,3,5,7]
```


```
for digit in str(n):
    digit=int(digit)
    if is_prime_digit(digit):
        discount+=digit
return discount
```

	Test	Expected	Got	
✔	`print(christmasDiscount(578))`	12	12	✔

Ex. No. : 9.2 **Date: 01.06.24**

Register No.: 231901035 **Name: Nitheesh K K**

Check Product of Digits

Write a code to check whether product of digits at even places is divisible by sum of digits at odd place of a positive integer.
Input Format:

Take an input integer from stdin.

Output Format:

Print TRUE or FALSE.

Example Input:

1256

Output:

TRUE

Example Input:

1595

Output:

FALSE

For example:

Test	Result
print(productDigits(1256))	True
print(productDigits(1595))	False