

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

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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.

```
s1=input().split()
s2=input().split()
s=s1+s2
for i in range(len(s)):
    if s.count(s[i])==1:
        print(s[i],end=" ")
```

Input: test_dict = {'Gfg': [6, 7, 4], 'best': [7, 6, 5]}

Output : {'Gfg': 17, 'best': 18}

Explanation: Sorted by sum, and replaced. **Input**: $test_dict = { Gfg' : [8,8], Gest' : [5,5] }$ **Output**:

{'best': 10, 'Gfg': 16}

Explanation: Sorted by sum, and replaced. Sample

Input:

2

Gfg 6 7 4

Best 7 6 5 Sample

Output Gfg 17

Best 18

For example:

Input	Result
2 Gfg 6 7 4 Best 7 6 5	Gfg 17 Best 18

Ex. No.	:	9.2	Date:
Register No.:			Name:

Sort Dictionary by Values Summation

Give a dictionary with value lists, sort the keys by summation of values in value list.

```
n = int(input(""))
test_dict = {}
for _ in range(n):
    key, *values = input().split()
    test_dict[key] = list(map(int, values))

sums = {key: sum(values) for key, values in test_dict.items()}

sorted_dict = dict(sorted(sums.items(), key=lambda item: item[1]))
for key, value in sorted_dict.items():
    print(f"{key} {value}")
```

Examples:

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:

. o. example.			
Input	Result		
10 John Johny Jamie Jamie Johny Jack Johny Johny Jackie	Johny		

Ex. No.	:	9.3	Date:
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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.

```
n=int(input())
names=[]
a=[]
for i in range(n):
  names.append(input())
  if names[i] not in a:
    a.append(names[i])
num=[]
for i in a:
  num.append(names.count(i))
max=max(num)
o=[]
for i in range(len(a)):
  if num[i]==max:
    o.append(a[i])
s=[]
f=[]
if len(o)==1:
  print(o[0])
else:
  print(min(o))
```

Sample input: 4

James 67 89 56

Lalith 89 45 45

Ram 89 89 89

Sita 70 70 70

Sample Output:

Ram

James Ram

Lalith Lalith

Ex. No.	:	9.4	Date:
Register No.:			Name:

Student Record

Create a student dictionary for n students with the student name as key and their test mark assignment mark and lab mark as values. Do the following computations and display the result.

- 1. Identify the student with the highest average score
- 2. Identify the student who as the highest Assignment marks
- 3. Identify the student with the Lowest lab marks
- 4. Identify the student with the lowest average score Note:

If more than one student has the same score display all the student names

```
def process student marks():
  n = int(input(""))
  students = {}
  for in range(n):
    data = input().strip()
    name, test mark, assignment mark, lab mark = data.split()
    students[name] = {
      'test mark': int(test mark),
      'assignment mark': int(assignment mark),
      'lab mark': int(lab mark)
    }
  averages = {name: (marks['test mark'] + marks['assignment mark'] + marks['lab mark']) / 3
        for name, marks in students.items()}
  max average = max(averages.values())
  highest avg students = sorted([name for name, avg in averages.items() if avg == max average])
  max assignment = max(students[name]['assignment mark'] for name in students)
  highest assignment students = sorted([name for name in students if
students[name]['assignment mark'] == max assignment])
  min lab = min(students[name]['lab mark'] for name in students)
  lowest lab students = sorted([name for name in students if students[name]['lab mark'] ==
min lab])
```

```
print(" ".join(highest_avg_students))
print(" ".join(highest_assignment_students))
print(" ".join(lowest_lab_students))
print(" ".join(lowest_avg_students))

process_student_marks()
```

The points associated with each letter are shown below: Points

Letters

1 A, E, I, L, N, O, R, S, T and U

2 D and G

3 B, C, M and P

4 F, H, V, W and Y

5 K

8 J and X 10

Q and Z

Sample Input

REC

Sample Output

REC is worth 5 points.

Ex. No.	:	9.5	Date:
Register No.:			Name:

Scramble Score

In the game of Scrabble[™], each letter has points associated with it. The total score of a word is the sum of the scores of its letters. More common letters are worth fewer points while less common letters are worth more points.

Write a program that computes and displays the ScrabbleTM score for a word. Create a dictionary that maps from letters to point values. Then use the dictionary to compute the score. A ScrabbleTM board includes some squares that multiply the value of a letter or the value of an entire word. We will ignore these squares in this exercise.

```
s=input()
a1=['A','E','I','L','N','O','R','S','T','U']
a2=['D','G']
a3=['B','C','M','P']
a4=['F','H','V','W','Y']
a5=['K']
a8=['J', X']
a10=['Q','Z']
count=0
for i in s:
  if i in a1:
     count+=1
  elif i in a2:
     count+=2
  elif i in a3:
     count+=3
  elif i in a4:
     count+=4
  elif i in a5:
     count+=5
  elif i in a8:
     count+=8
  elif i in a10:
     count+=10
print(s,"is
```

worth",count,"points.")