1. Write a Python program find a list of integers with exactly two occurrences of nineteen and at least three occurrences of five.

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[19, 19, 5, 5, 5, 5, 5] Output: True
[19, 15, 15, 5, 3, 3, 5, 2] Output: False
list1=[19, 19, 5, 5, 5, 5, 5]
a=sorted(set(list1))
if list1.count(19)==2 and list1.count(5)>=3:
    print("true")
else:
    print("False")
```

2. Write a Python program that accept a list of integers and check the length and the fifth element. Return true if the length of the list is 8 and fifth element occurs thrice in the said list. Input: [19, 19, 15, 5, 5, 5, 1, 2] Output: True Input: [19, 15, 5, 7, 5, 5, 2] Output: False

```
list1=(input("Enter a element for list using space:"))
list2=list1.split()
for i in range(len(list2)):
    list2[i]=int(list2[i])
a=list2[4:5]
if len(list2)==8:
    for i in a:
        if list2.count(i)==3:
            print("true")
        else:
        print("False")
```

3. Write a Python program to split a string of words separated by commas and spaces into two lists, words and separators. Input: The dance, held in the school gym, ended at midnight. Output: [['The', 'dance', 'held', 'in', 'the', 'school', 'gym', 'ended', 'at', 'midnight.'], [' ', ', ', ', ', ', ', ', ', ', ', ']]

```
s = "The dance,held in the school gym,ended at midnight"
l = [ ]
# i just separate the comma
for i in s:
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```
if ',' in i:
        1.append(',')
    elif " " in i:
        1.append(" ")
a=s.split(" ")
12 = [ ]
for i in a:
    if "," in i:
        c=i.split(",")
        12.extend(c)
    else:
        c= i.split()
        12.extend(c)
13=[]
13.append(12)
13.append(1)
print(13)
   4. Write a Python program to find missing numbers from a list. Input: [1,2,3,4,6,7,10] Output: [5,
     8, 9]
list1=(input("Enter a element for list using space:"))
list2=list1.split()
for i in range(len(list2)):
  list2[i]=int(list2[i])
for i in range(1,10):
  if i not in list2:
    print(i)
   5. Write a Python program to push all zeros to the end of a list. Input: [0,2,3,4,6,7,10] Output: [2,
     3, 4, 6, 7, 10, 0]
list2=(input("Enter a element for list using space:"))
list2=list2.split()
a=[]
for i in range(len(list2)):
  list2[i]=int(list2[i])
for i in range(len(list2)):
  if list2[i]==0:
    list2.remove(list2[i])
    list2.append(0)
print(list2)
```

