Sherlock and the Valid String

- Crack a Hack

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Problem statement:

- Sherlock validates a string to be valid or not according to the following conditions:
    - All characters in s have the same exact frequency (i.e., occur the same number of times).

  Eg: aabbcc is valid whereas abbcdd is invalid

    - Deleting 1 character makes the string valid.

Eg: abbcc is valid whereas aaabccddd is invalid

Code solution – (in Python)

```
#!/bin/python
import sys


def isValid(s):
    setString = list(set(s))
    lengthSet = len(setString)
    count = [0]*lengthSet  #For creating set length of 0's
    lengthString = len(s)
```

```
sumSet = 0
for i in xrange(lengthString): #Find frequencies of all elements
        for j in xrange(lengthSet):
            if s[i] == setString[j]:
                count[j] += 1
    countSum = count[0]*lengthSet      #If all frequencies are same, the total count will be this
    tempSum = count[0]*(lengthSet-1) + 1 #if one character is having frequency 1
    for i in range(lengthSet):
        sumSet += count[i]
    #print countSum,sumSet,tempSum
    if countSum == sumSet or sumSet == tempSum or countSum == sumSet-1:
        return "YES"
    else:
        return "NO"
```