□ Discuss (638)



860. Lemonade Change

Description

△ 1172 **√** 119 **♥** Add to List [Share

△ Solution

At a lemonade stand, each lemonade costs \$5. Customers are standing in a queue to buy from you and order one at a time (in the order specified by bills). Each customer will only buy one lemonade and pay with either a \$5, \$10, or \$20 bill. You must provide the correct change to each customer so that the net transaction is that the customer pays \$5.

Submissions

Note that you do not have any change in hand at first.

Given an integer array bills where bills[i] is the bill the ith customer pays, return true if you can provide every customer with the correct change, or false otherwise.

Example 1:

Input: bills = [5,5,5,10,20]

Output: true Explanation:

From the first 3 customers, we collect three \$5 bills in order.

From the fourth customer, we collect a \$10 bill and give back a \$5.

From the fifth customer, we give a \$10 bill and a \$5 bill.

Since all customers got correct change, we output true.

Example 2:

Input: bills = [5,5,10,10,20]

Output: false Explanation:

From the first two customers in order, we collect two \$5 bills.

For the next two customers in order, we collect a \$10 bill and give back a \$5 bill.

For the last customer, we can not give the change of \$15 back because we only have two \$10 bills.

Since not every customer received the correct change, the answer is false.

Constraints:

≡ Problems

- 1 <= bills.length <= 10⁵
- bills[i] is either 5, 10, or 20.

i Java Autocomplete $i \in \{\}$





```
class Solution {
 1
 2
           public boolean lemonadeChange(int[] bills) {
 3
 4
               int size = bills.length;
               int numberOfFiveDollars = 0;
               int numberOfTenDollars = 0;
 6
               int numberOfTwentyDollars = 0;
 8
 9
               for(int i = 0; i < size; i++){
                   if(bills[i] == 5)
10
11
                       numberOfFiveDollars++;
                   else if(bills[i] == 10){
12
13
                       //Change of 10 is only payable via five
       dollar
                       if(numberOfFiveDollars > 0){
14
15
                           numberOfFiveDollars--;
16
                           numberOfTenDollars++;
17
18
                       else
19
                           return false;
20
                   }else{
21
                       //Change of 20 is payable via 5 and 10
       dollars
22 ▼
                       if(numberOfTenDollars > 0 &&
       numberOfFiveDollars > 0){
23
                           numberOfTenDollars--;
24
                           numberOfFiveDollars--;
25 ▼
                       }else if(numberOfFiveDollars >= 3){
26
                           numberOfFiveDollars =
       numberOfFiveDollars - 3;
27
28
                       else
29
                           return false;
30
31
32
```

return true;

33

34 35