Programming Assignment-1: Digit

Due on 2020-04-09, 23:59 IST
You are provided with a number D containing only digits 0's and 1's. Your aim is to convert this number to have all the digits same.
For that, you will change exactly one digit i.e. from 0 to 1 or from 1 to 0. If it is possible to make all digits equal (either all 0's or all 1's) by flipping exactly 1 digit then output "YES", else print "NO" (quotes for clarity).

Input Format:
The first line of the input contains the number D made of only digits 1's and 0's.

Output:
Print 'YES' or 'NO' depending on whether its possible to make it all 0s or 1s or not.

Example-1:
Input:
101
Output:
YES

Example-2:
Input:
11
Output:
NO

Explanation:
In the first example, it is possible to make all the digits same by flipping the middle digit from 0 to 1. In the second example it is not possible.

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1111110000</td>
<td>NO</td>
</tr>
<tr>
<td>10101010101010101010101010101010101</td>
<td>NO</td>
</tr>
<tr>
<td>1111111111111111111111111111111111111111</td>
<td>NO</td>
</tr>
<tr>
<td>101010</td>
<td>NO</td>
</tr>
<tr>
<td>11011</td>
<td>YES</td>
</tr>
<tr>
<td>00100</td>
<td>YES</td>
</tr>
</tbody>
</table>

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

```python
numbers = []
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ls = []
x = input()
li = str(x)
for j in li:
    ls.append(int(j))
numbers.append(ls)

for j in numbers:
    count_z = 0
    count_o = 0
    for k in j:
        if(k==1):
            count_o += 1
        if(k==0):
            count_z += 1
    if((count_o == 1) or (count_z == 1)):
        print("YES")
    else:
        if((count_o == 0) or (count_z == 0)):
            print("NO")
        else:
            print("NO")