**Add Binary** 

My Submissions (/problems/add-binary/submissions/)

Total Accepted:

Question Solution

**56676** Total

Submissions: 228975 Difficulty: Easy

Given two binary strings, return their sum (also a binary string).

For example,

a = "11"

b = "1"

Return "100".

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Python

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```
1
    class Solution(object):
 2
        def addBinary(self, a, b):
 3
 4
             :type a: str
 5
             :type b: str
 6
             :rtype: str
            .....
 7
 8
            len1=len(a);len2=len(b);top=0
 9
            lens = len1+2 if len1>len2 else len2+2
            str = [0 for i in range(lens)]
10
            i=len1-1; j=len2-1
11
12
            while True:
13
                 if i<0 and j<0:break
14
                 elif i<0:str[top]+=ord(b[j])-ord('0');top+=1;j-=1
                 elif j<0:str[top]+=ord(a[i])-ord('0');top+=1;i-=1
15
16
                 else:str[top]+=ord(b[j])-ord('0')+ord(a[i])-ord('0');top+=1;i-=1;
17
            i=0
            while i<lens-1:
18
19
                 str[i+1]+=str[i]/2
20
                 str[i]%=2
21
                 i+=1
22
            while i>0 and str[i]==0:i-=1
23
   ⊠ Send Fểể₫bāck (mailto:admin@leetcode.com?subject=Feedback)
            for i in range(i+1):ret.append(chr(str[i]+ord('0')))
24
```

No

## Custom Testcase

```
"111"
"1"
```

One line for one parameter.

Run Code

**Submit Solution** 

## Run Code Status: Finished

Your input

"111"
"1"

Your answer

"1000"

Expected answer

"1000"

Runtime: 84 ms

## Submission Result: Accepted (/submissions/detail/40719051/)

More Details ➤ (/submissions/detail/40719051/)

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(H) Basic Calculator (/problems/basic-calculator/) (M) Missing Number (/problems/missing-number/)

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