

Description

Solution

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Submissions

### 67. Add Binary

Easy

4714

521

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Given two binary strings `a` and `b` , return *their sum as a binary string*.

#### Example 1:

Input: `a = "11"`, `b = "1"`  
Output: `"100"`

#### Example 2:

Input: `a = "1010"`, `b = "1011"`  
Output: `"10101"`

#### Constraints:

- `1 <= a.length, b.length <= 104`
- `a` and `b` consist only of `'0'` or `'1'` characters.
- Each string does not contain leading zeros except for the zero itself.

Accepted 801,169 Submissions 1,595,673

Seen this question in a real interview before?

Yes

No

Companies

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```
1  class Solution {
2      public String addBinary( String a, String b ) {
3
4          int carry = 0;
5          int j = a.length() - 1, k = b.length() - 1;
6
7          StringBuilder stringBuilder1 = new StringBuilder(a);
8          StringBuilder stringBuilder2 = new StringBuilder(b);
9          StringBuilder result = new StringBuilder();
10
11         while (j >= 0 && k >= 0) {
12             int sum = (stringBuilder1.charAt(j--) - '0') +
13             (stringBuilder2.charAt(k--) - '0') + carry;
14             carry = sum / 2;
15             result.append(sum % 2);
16         }
17         while (j >= 0) {
18             int sum = (stringBuilder1.charAt(j--) - '0') + carry;
19             carry = sum / 2;
20             result.append(sum % 2);
21         }
22         while (k >= 0) {
23             int sum = (stringBuilder2.charAt(k--) - '0') + carry;
24             carry = sum / 2;
25             result.append(sum % 2);
26         }
27
28         if (carry != 0)
29             result.append(carry);
30
31         return result.reverse().toString();
32     }
33 }
34 }
```