Add Binary Strings 🔖

Difficulty: **Medium**   Accuracy: **23.25%**   Submissions: **88K+**   Points: **4**

Given two binary strings **s1** and **s2** consisting of only 0s and 1s. Find the resultant string after adding the two Binary Strings.

Note: The input strings may contain leading zeros but the output string should not have any leading zeros.

Input: s1 = "1101", s2 = "111"

Output: 10100

Explanation:

```
 1101
+ 111
10100
```

Input: s1 = "00100", s2 = "010"

Output: 110

Explanation:

```
 100
+  10
 110
```

```java
// } Driver Code Ends

// User function Template for Java
class Solution {
    public String addBinary(String s1, String s2) {
        int carry=0;
        String sum="";
        int i=s1.length()-1;
        int j=s2.length()-1;
        while(i>=0||j>=0||carry!=0){
            int bit1 = (i >= 0) ? s1.charAt(i) - '0' : 0;
            int bit2 = (j >= 0) ? s2.charAt(j) - '0' : 0;
            int temp=bit1+bit2+carry;
            sum=temp%2+sum;
            carry=temp/2;
            i--;
            j--;
        }
        int k=0;
        while(k<sum.length() && sum.charAt(k)=='0'){
            k++;
        }
        return sum.substring(k);
    }
}
```