

## 67. Add Binary

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题目描述: <https://leetcode.com/problems/add-binary/>

给定两个字符串是两个二进制数，求和  
例子：

```
a = "11"
b = "1"
res = "100"
```

解题思路：

用*i*, *j* 作为两个字符串相加的游标，从结尾开始相加。

代码：

```
class Solution {
public:
    string addBinary(string a, string b) {
        int i = a.size()-1, j = b.size() - 1;
        int r = 0, f = 0;
        string res;
        while(i >= 0 || j >= 0){
            r = f;
            if(i >= 0){
                r += (a.at(i--)-'0');
            }
            if(j >= 0){
                r += (b.at(j--)-'0');
            }
            f = r % 2;
            r = r / 2;
            res = (r + '0') + res;
        }
        if(f == 1) res = "1" + res;
        return res;
    }
};
```

```
    }
    if(j >= 0){
        r += (b.at(j--)-'0');
    }
    if(r > 1){
        f = 1; r = r%2;
    }
    else
        f = 0;
    res = to_string(r)+res;
}
if(f)
    res = to_string(f)+res;
return res;
}
};
```