CODE:

```cpp
#include <iostream>
#include <stack>
using namespace std;

int main() {
    string a, b;
    cin >> a >> b;
    stack<int> s1, s2, res;

    for (char c : a) s1.push(c - '0');
    for (char c : b) s2.push(c - '0');

    int carry = 0;
    while (!s1.empty() || !s2.empty() || carry) {
        int x = 0, y = 0;
        if (!s1.empty()) { x = s1.top(); s1.pop(); }
        if (!s2.empty()) { y = s2.top(); s2.pop(); }
        int sum = x + y + carry;
        res.push(sum % 2);
        carry = sum / 2;
    }

    while (!res.empty()) {
        cout << res.top();
        res.pop();
    }
    cout << endl;
```

```
    return 0;
}
```

OUTPUT:

1100

1001

10101

[Program finished]