

```

#include <bits/stdc++.h>
using namespace std;
int occurred[1005];
int main() {
    int i = 3;
    for(int i = 1; i <= n; i++){

    }
    //sequence: 1 1 2 3 5 8 13 21 34 55 ...
    int n;
    cin >> n;
    int left = 1, mid = 1, right = 2;
    while(i <= n){
        right = left + mid;
        left = mid;
        mid = right;
        i++;
        //break;
    }
    if(n == 1) cout << 1 << endl;
    else if(n == 2) cout << 1 << endl;
    else if(n == 3) cout << 2 << endl;
    else cout << right << endl;*/
    int a[200];
    a[0] = 0;
    a[1] = 1;
    int n;
    cin >> n;
    for(int i = 2; i <= n; i++){
        a[i] = a[i - 1] + a[i - 2];
    }
    cout << a[n] << endl;
    /*1 23 2 555 666 ... a_i <= 1000.
    n <= 1000
    a_1, a_2, a_3,
    input:
    5
    1 1 3 500 6
    output:
    4*/
    int n, ans = 0;
    int a[1005], b[1005];
    //memset(a, 0, sizeof(a));
    cin >> n;

```

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//cin >> column >> rows;
for(int i = 1; i <= n; i++) cin >> a[i]; // != not equal
for(int i = 1; i <= n; i++){
    if(occurred[a[i]] == 0){ // never show up before
        ans++; // count as a new one
        b[ans] = a[i];
        occurred[a[i]] = 1; // avoid double counting
    }
}
cout << ans << endl;
for(int i = 1; i <= ans; i++) cout << b[i] << " ";

return 0;
}
```