动态规划：1035. 不相交的线

代码：

```cpp
class Solution {
public:
    int maxUncrossedLines(vector<int>& nums1, vector<int>& nums2) {
        int m = nums1.size();
        int n = nums2.size();
        vector<vector<int>> dp(m+1,vector<int>(n+1));
        for(int i = 1;i <= m;i++)
        {
            for(int j = 1;j <= n;j++)
            {
                if(nums1[i-1] == nums2[j-1])
                {
                    dp[i][j] = dp[i-1][j-1] + 1;
                }
                else dp[i][j] = max(dp[i-1][j],dp[i][j-1]);
            }
        }
        return dp[m][n];
    }
};
```

BFS：695. 岛屿的最大面积

代码：

```cpp
class Solution {
    int dx[4] = {1,-1,0,0};
    int dy[4] = {0,0,1,-1};
    int m,n;
    bool vis[51][51];
    int max1 = 0;
    int count = 0;

public:
    void bfs(vector<vector<int>>& grid,int i,int j)
    {
        sum = 1;
        queue<pair<int,int>> q;
        q.push({i,j});
        vis[i][j] = true;
        while(q.size())
        {
            auto [a,b] = q.front();
            q.pop();
            for(int k = 0 ;k < 4;k++)
            {
                int x = a + dx[k];
                int y = b + dy[k];
                if(x >=0 && x < m && y >=0 && y <n && grid[x][y] == 1 && !vis[x][y])
                {
                    count++;
                    q.push({x,y});
                    vis[x][y] = true;
                }
            }
            max1 = max(max1,count);
        }
    }
    int maxAreaOfIsland(vector<vector<int>>& grid) {
        m = grid.size();
        n = grid[0].size();

        for(int i = 0;i < m;i++)
        {
```

```
            for(int j = 0; j < n;j++)
            {
                if(grid[i][j] == 1 && !vis[i][j])
                {
                    bfs(grid,i,j);
                }
            }
        }
        return max1;
    }
};
```