

# Find maximum height pyramid from the given array of objects

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#include <bits/stdc++.h>

using namespace std;

int maxPyramidHeight(vector<int>& arr) {
    if (arr.size() == 1) return 1;
    sort(arr.begin(), arr.end());
    // 记录上一层的宽度和数量
    int maxHeight = 1, preWidth = arr[0], preCount = 1;
    int curCount = 0, curWidth = 0;
    for (int i = 1; i < arr.size(); ++i) {
        curWidth += arr[i];
        curCount += 1;
        if (curWidth > preWidth && curCount > preCount) {
            preCount = curCount;
            preWidth = curWidth;
            curWidth = 0;
            curCount = 0;
            maxHeight += 1;
        }
    }
    return maxHeight;
}

int main() {
    vector<int> arr = {10, 20, 30, 50, 60, 70};
    printf("%d\n", maxPyramidHeight(arr));
}
```