#include<bits/stdc++.h>

using namespace std;

int findDuplicate(vector < int > & arr) {

int n = arr.size();

sort(arr.begin(), arr.end());

for (int i = 0; i < n - 1; i++) {

if (arr[i] == arr[i + 1]) {

return arr[i];

}

}

}

int main() {

vector < int > arr;

arr = {1,3,4,2,2};

cout << "The duplicate element is " << findDuplicate(arr) << endl;

}