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#include <bits/stdc++.h>

using namespace std;

class Voter{
    static int countOfVoter;
    static int votes[7]; //spoilt ballot in 0
    int vote;
public: Voter();
        Voter(int);
        static void appendVote(int);
        static void electionResult();
};

int Voter :: countOfVoter;
int Voter :: votes[7];

Voter :: Voter(){
    cout<<"Value of vote";
    cin>>vote;
    appendVote(vote);
}

Voter :: Voter(int x){
    vote = x;
    appendVote(x);
}

void Voter::electionResult(){
    cout<<"Declaration of election result\n";
    int maxi = 1;
    vector <int> equals(1);
    equals[0] = -1;
    int k = 0;
    for (int i = 1; i < 6; i++){
        cout<<"Candidate "<<i<<" got
"<<votes[i]<<" votes\n";
        maxi = (votes[i]>votes[maxi])?i:maxi;
        if (equals[0] != -1 && votes[maxi] >
votes[equals[0]]){
            equals.resize(1);
            equals[0] = -1;
            k = 0;
        }
    }
}

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    if (votes[maxi] == votes[i] && maxi != i)
        equals[k] = (i);

    }
    cout<<"Invalid ballots:"<<votes[0]<<"\n";
    if (equals[0] == -1)
        cout<<"Candidate "<<maxi<<" wins the
election with "<<votes[maxi]<<" votes\n";
    else {
        cout<<"Tie between candidates
"<<maxi<<" and ";
        int i;
        //
        for (i = 0; i <= k; i++)
            cout<<equals[i]<<" ";
        cout<<"\n";
    }
}

void Voter::appendVote(int x){
    countOfVoter++;
    if (x<1 || x>5)
        votes[0]++;
    else
        votes[x]++;
}

int main(){
    int n,y;
    cout<<"Enter number of voters:";
    cin>>n;
    cout<<"Enter votes : ";
    for (int i = 0; i<n;i++){
        cin>>y;
        Voter x(y);
    }
    Voter::electionResult();
    return 0;
}

```

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C:\Users\Vincent\Code\c-cpp\SE\Labs\OOPS\Assignments\a2>.\p2d
Enter number of voters:17
Enter votes : 2 3 4 2 4 2 4 2 3 5 6 5 6 4 3 2 2 2
Declaration of election result
Candidate 1 got 0 votes
Candidate 2 got 6 votes
Candidate 3 got 3 votes
Candidate 4 got 4 votes
Candidate 5 got 2 votes
Invalid ballots:2
Candidate 2 wins the election with 6 votes
```

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C:\Users\Vincent\Code\c-cpp\SE\Labs\OOPS\Assignments\a2>.\p2d
Enter number of voters:14
Enter votes : 2 3 4 2 4 2 4 2 3 5 6 5 6 4 3
Declaration of election result
Candidate 1 got 0 votes
Candidate 2 got 4 votes
Candidate 3 got 2 votes
Candidate 4 got 4 votes
Candidate 5 got 2 votes
Invalid ballots:2
Tie between candidates 2 and 4
```