class Solution {

public:

int findMaxLength(vector<int>& nums) {

map<int,int> m;

int count=0;

int length=0;

for(int i=0;i<nums.size();i++){

if(nums[i]==0){

count--;

}else{

count++;

}

if(count==0){

length=max(length,i+1);

}

else if(m.find(count)!=m.end()){

length=max(length,i-m[count]);

}

else{

m[count]=i;

}

}

return length;

}

};