{1,2,2,1,1,3,3}

1^1=0,0^0=0

1^2^2^1^1^3^3

(1^1)^(2^2)^1^(3^3)

0^0^1^0

0^1=1

**Majority element**

**A={3,1,3,3,2}**

**Res=0,count=1**

**for(int i=1;i<size;i++)**

**{**

**if(a[res]==a[i])**

**count++;**

**else**

**count--;**

**if(count==0){**

**res=i;**

**count=1;**

**}**

**}**

**I i<size a[res]==a[i]**

**1 1<5 3==1 wrong**

**Count --=0**

**Count=0 right -> res=1,count=1**

**2 2<5 1==3 wrong**

**Count --=0**

**Count=0 right-> res=2,count=1**

**3 3<5 3==3 right**

**Count++=2**

**4 4<5 3==2 wrong**

**Count--=1**

**Count=1**

**Res=2**

**I=4**

**count=0;**

**for(int i=0;i<size;i++)**

**if(a[res]==a[i])**

**count++;**

**if(count<=size/2)**

**return -1;**

**return a[res];**

**count=0**

**I i<size**

1. **0<5 3==3 right count=1**
2. **1<5 3==1 wrong**
3. **2<5 3==3 right count=2**
4. **3<5 3==3 right count=3**
5. **4<5 2==3 wrong**

**Count=3 , 3<=2 return a[res]=a[2]=3**

**int res=1;**

**for(int i=1;i<N;i++)**

**{**

**if(A[i]!=A[res-1]){**

**A[res]=A[i];**

**res++;**

**}**

**}**

**return res;**

**{2,3,2,3,3}**

**Res=1**

**I i<n a[i]!=a[res-1]**

**1 1<5 a[1]!=a[0] (2!=2)wrong->**

**2 2<5 a[2]!=a[1](2!=2)wrong**

1. **3<5 a[3]!=a[1](3!=2)right-> a[1]=3,res=2**

**44<5 a[4]!=a[2](3!=3)wrong**

**Return res->2**

**For(i=0;i<2;i++)**