// 2 unique no ;

/\* 8

1 2 1 2 3 5 7 5

3 7

\*/

#include<iostream>

using namespace std;

int main()

{

int n;

cin>>n;

int no;

int a[100005];

int res=0;

for(int i=0;i<n;i++)

{

cin>>no;

a[i]=no;

res=res^no;

}

int temp=res;

int pos=0;

while ( (temp&1)!=1 )

{

pos++;

temp=temp>>1;

}

//the first set bit has position pos

int mask= (1<<pos);

//find those nos set bit at position pos

int x=0;

int y=0;

for(int i=0;i<n;i++)

{

if( (a[i]&mask)>0 )

{

x=x^a[i];

}

}

y=res^x;

cout<<min(x,y)<<" "<<max(x,y)<<endl;

}