**Minimum AND xor OR**

Given an array A of N integers. Find out the minimum value of the following expression for all valid i,j.

(Ai and Aj) xor (Ai or Aj), where i≠j.

**Input format**

* First line: A single integer T denoting the number of test cases
* For each test case:
  + First line contains a single integer N, denoting the size of the array.
  + Second line contains N space separated integers A1,A2,...,An

#include <bits/stdc++.h>

using namespace std;

int func(int arr[],int n){ // func(arr[1,2,3,4,5] , 5)

int max=INT\_MAX;

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

arr[i] = (arr[i] & arr[i+1] ) ^ ( arr[i] | arr[i+1] );

if(arr[i]<max)

max=arr[i];

}

cout<<max<<endl;

return max;

}

int main(){

int tc\_count;

cin>>tc\_count; //2

for(int i=0;i<tc\_count;i++){

int size;

cin>>size; //5

int a[size];

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

cin>>a[i]; // a[1 ,2, 3, 4, 5] address-200

}

sort(a,a+size);//sort(200,)

func(a,size);

}

return 0;

}