

```

class SegmentTree{
    int [] tree;
    int size;
    int lastIndex;
    int numElements;

    public SegmentTree(int n, int arr[]){
        size = 2*(Math.pow(2,Math.ceil(Math.log(n,2)))) -1;
        tree = new int[size];
        numElements=n;
        int index=0;

        for(int i=size/2;i<size;i++) {
            if(index < arr.length){
                tree[i] = arr[index++];
                lastIndex=i;
            } else{
                tree[i]=0;
            }
        }
        for(int i= (size/2)-1;i>=0;i--){
            arr[i] = arr[2*i+1]^arr[2*i +2];
        }
    }

    public Integer getXor(int l,int r){
        if(l<0 || r>=numElements || r<l) {
            return null;
        }

        return getXorHelper(0,size/2,l,r,0);
    }
}

```