num = 2 46 mm 684523 246 234568 358 NUM 1 = 2 4 6 L Num 2 = 3 8 8 2 0×10+2

2×10+ 4

24×10+6=248

```
6
6 8 4 5 2 3
```

```
public static void main(String[] args) {
   /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class shou
   Scanner sc = new Scanner(System.in);
   int n = sc.nextInt();
   int[] arr = new int[n];
   for(int i=0;i<n;i++){
       arr[i]=sc.nextInt();
    long ans = minimun(arr);
   System.out.println(ans);
public static long minimum(int[] arr){
   PriorityQueue<Integer> pq = new PriorityQueue<>();
   for(int x:arr){
       pq.add(x);
   long num1=0;
   long num2=0;
   for(int i=0;i<arr.length;i++){</pre>
       int val = pq.poll();
       if(i%2==0){
                                                                                         35×10 F 18
           num1 = num1*10+val;
                                          num2=358
       }else{
                                                                                          350 +2
           num2 = num2*10+val;
   return num1+num2;
```

- Hashset 5 1 5 0 3 5 Sample Output 0 5/50(hs.52e(1) 4,2,

1 5 0 3 5 Ascending F3 5 53 int operat=0, int last =\$135 while (Bize >6) & Coun = 7

Masnset

 $\widetilde{S}, \widetilde{S}, \widetilde{S}, \widetilde{S}$ 4,47 1 (20) 2, 2, 2 53

subtract numbers 1

```
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class sl
    Scanner sc = new Scanner(System.in);
   int n = sc.nextInt();
    int[] arr = new int[n];
    for(int i=0;i<n;i++){
        arr[i]=sc.nextInt();
   int ans = minimum(arr);
    System.out.println(ans);
}
public static int minimum(int[] arr){
    PriorityQueue<Integer> pg = new PriorityQueue<>();
    for(int x:arr){
        if(x>0){
            pq.add(x);
   int count=0;
   int last=0;
   while(pq.size()>0){
        int current = pq.poll();
        if(current!=last){
            count++;
            last = current;
    return count;
```

maximum diamonds

```
public class Solution {
    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be name
         Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int k = sc.nextInt();
        int[] arr = new int[n];
        for(int i=0;i<n;i++){
            arr[i]=sc.nextInt();
        }
        int ans = maxDiamonds(arr,k);
        System.out.println(ans);
    public static int maxDiamonds(int[] arr,int k){
        PriorityQueue<Integer> pq = new PriorityQueue<>(Collections.reverseOrder());
        for(int x:arr){
            pq.add(x);
        }
        int diamonds=0;
        for(int i=0;i<k;i++){
            int max = pq.poll();
            diamonds+=max;
            pq.add(max/2);
        return diamonds;
}
```

$$\begin{aligned} & \text{Example} \\ & a = [7, 3, 5, 2] \end{aligned}$$

Sorted	Median
[7]	7.0
[3, 7]	5.0
[3, 5, 7]	5.0
[2, 3, 5, 7]	4.0

Example a = [7,3,5,2]Sorted Median [7] [3,7] [5,0] [3,5,7] [2,3,5,7] 4.0 $\begin{bmatrix} 7 \\ 3 \\ 5 \end{bmatrix}$

 $[7] \rightarrow 7.0$ $[3] \rightarrow 5.0$ $[3,5,7] \rightarrow 5.0$ $[2,(3,5,7) \rightarrow 4.0$

 $\frac{2}{\sqrt{2}}$ $\frac{3}{\sqrt{2}}$ $\frac{3}{\sqrt{2}}$ $\frac{3}{\sqrt{2}}$ $\frac{3}{\sqrt{2}}$ $\frac{3}{\sqrt{2}}$

3+7 = 2 2 = 2 5 = 0 3 ts

min hear min STDIN Function a[] size n = 6a = [12, 4, 5, 3, 8, 7]

8.0 5.2

