Revis	ion	+v	s (swap).
In section.	(DM)	pare.	
Lambda		eony,	e
8 un mary	invocasing,		Min Volue Min Volue Mox Volu function
	decreasing b-a	,	Joseph

Car-20006 In; int character. Integer. parse Int

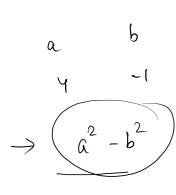
MIN-VALUE

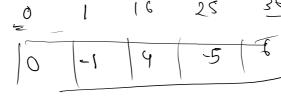
MAX- UALUE clase Looks () S

Sort the array according to their Square of each element

Sample Input 0

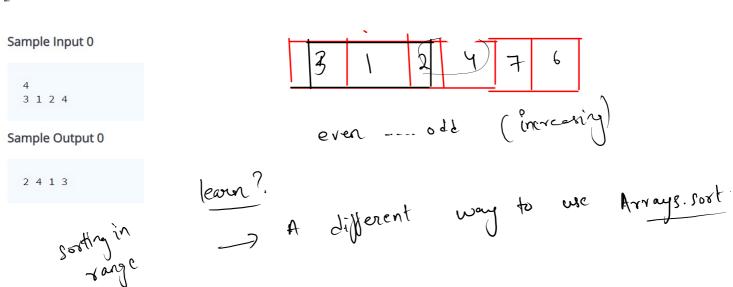
Sample Output 0

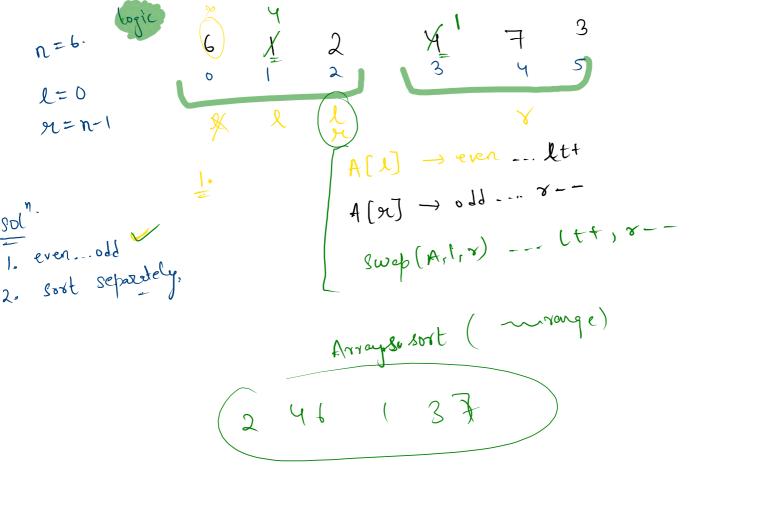




```
You are screen shari
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Integer [] A = new Integer[n];
    for(int i = 0; i < n; i++){
        A[i] = scn.nextInt():
    }
    Comparator<Integer> myComp=new Comparator<Integer>(){
        public int compare(Integer a, Integer b){
            return a*a-b*b;
    };
    Arrays.sort(A, myComp );
    // Arrays.sort(A, (a,b) -> a*a - b*b);
    for(int i = 0; i < n; i++){
        System.out.print(A[i] + " ");
```

Sort Array By Parity





Arrays. Sort : In a particulor range. included excluded Case A -> Arrays. Sort (A,), B > Arrays. sort (A, 0, 3), (>) Arrays. Sort (A, 2, 6),

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   Integer [] A = new Integer[n];
   for(int i = 0; i < n; i++){
       A[i] = scn.nextInt();
   //Step 1 .. even.. odd
   int l = 0;  //left
   int r = n-1; //right
   while(l <= r){</pre>
       if(A[l] % 2 == 0){
           1++;
       else if(A[r] % 2 != 0){
       else{
           int tmp = A[l];
           A[l] = A[r];
           A[r] = tmp;
           1++;
```

// Step 2: Sort in a range
Arrays.sort(A, 0 , l);
Arrays.sort(A, l, n);

Minimum difference 7

2)x



$$\bigvee$$

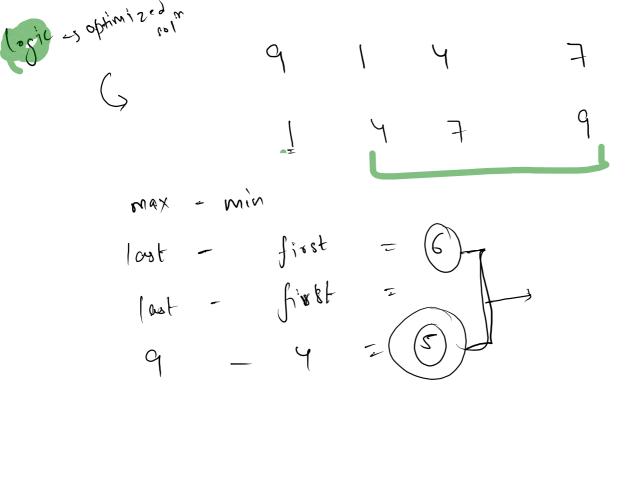
$$\downarrow$$

$$\frac{1}{1}$$
 $\frac{1}{1}$ $\frac{1}$

min Max 8

KZY max-min m= 8

K=2. Jo---3 K=3



K=3.

Nzj

$$d = (0), (1)$$

$$sum = 0 + 2 = 2$$

$$fond = 1 = 2 = 2$$

$$min (00, 2) = 2$$

$$min (-0, 2) = 2$$

$$max (-0, 2) = 2$$

2 9 5 9 9 q 12

2 7

0 --- n-K]

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
    Integer [] A = new Integer[n];
    for(int i = 0; i < n; i++){
       A[i] = scn.nextInt();
    }
   int k = scn.nextInt();
   int d = Integer.MAX_VALUE; // very large int value
   Arrays.sort(A);
    for(int i = 0; i <= n-k; i++){
       int min = A[i];
       int max = A[i+k-1];
       d = Math.min(d, max-min);
```

System.out.println(d);