Minimum difference 7

$$\begin{cases} 9, 4, 1 = 8 \\ \hline 9, 4, 7 = 5 \\ \hline 9, 1, 7 = 8 \\ \hline 4, 1, 7 = 6 \end{cases}$$

K=3

$$0^{10^{11}}$$
, $k=5$, $n=14$
 $5 \ 3 \ 7 \ -2 \ -8 \ 19 \ 10 \ 0 \ 1 \ 2 \ 5 \ -2 \ -1 \ 7$

Arrays. sort
$$-8 - 2 - 2 - 1 0 1 2 3 5 5 7 7 10 19$$

$$ans = 4 3 3$$

<= n-K

2+5-1 2/6 — 3,7 --- 3+5-1

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    int k = scn.nextInt();
    System.out.println(miniDiff(arr, n, k));
public static int miniDiff(int[] arr, int n, int k) {
Arrays.sort(arr);
    int ans = Integer.MAX_VALUE;
    for (int i = 0; i \le n - k; i++) {
        int mini = arr[i];
        int maxi = arr[i + k - 1];
        int diff = maxi - mini;
        if ( diff < ans ) {
            ans = diff;
    return ans;
}
```

Form the largest number

