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1984. Minimum Difference Between Highest and Lowest of K Scores

Easy Topics Hint

You are given a $\mathbf{0}$ -indexed integer array nums, where nums[i] represents the score of the i^{th} student. You are also given an integer k.

Pick the scores of any k students from the array so that the **difference** between the **highest** and the **lowest** of the k scores is **minimized**.

Return the **minimum** possible difference.

Example 1:

```
Input: nums = [90], k = 1
Output: 0
Explanation: There is one way to pick score(s) of one student:
- [90]. The difference between the highest and lowest score is 90 - 90 = 0.
The minimum possible difference is 0.
```

Example 2:

```
Input: nums = [9,4,1,7], k = 2
Output: 2
Explanation: There are six ways to pick score(s) of two students:
- [9,4,1,7]. The difference between the highest and lowest score is 9 - 4 = 5.
- [9,4,1,7]. The difference between the highest and lowest score is 9 - 1 = 8.
- [9,4,1,7]. The difference between the highest and lowest score is 9 - 7 = 2.
- [9,4,1,7]. The difference between the highest and lowest score is 4 - 1 = 3.
- [9,4,1,7]. The difference between the highest and lowest score is 7 - 4 = 3.
- [9,4,1,7]. The difference between the highest and lowest score is 7 - 1 = 6.
The minimum possible difference is 2.
```

Constraints:

- 1 <= k <= nums.length <= 1000
- $0 <= nums[i] <= 10^5$

Seen this question in a real interview before? 1/4

Yes No

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