1984. Minimum Difference Between Highest and Lowest of K Scores

Description

You are given a **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:

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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.
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Example 2:

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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.
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Constraints:

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