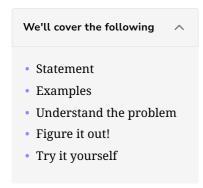
Find K Closest Elements

Try to solve the Find K Closest Elements problem.



Statement

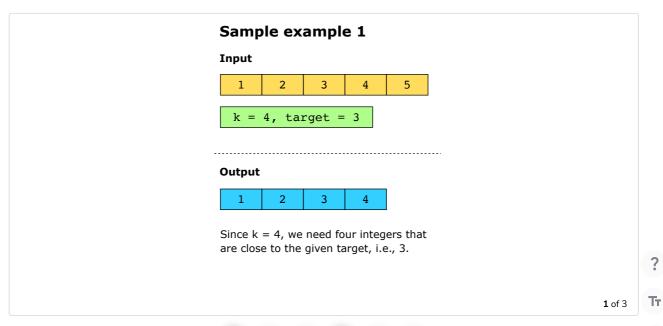
You are given a sorted array of integers, nums, and two integers, target and k. Your task is to return k number of integers that are close to the target value, target. The integers in the output array should be in a sorted order.

An integer, nums[i], is considered to be closer to target, as compared to nums[j] when |nums[i] - target| < |nums[j] - target|. However, when |nums[i] - target| = |nums[j] - target|, the smaller of the two values is selected.

Constraints:

- $1 \le k \le nums.length$
- $1 \leq \mathsf{nums.length} \leq 10^4$
- nums is sorted in ascending order.
- \bullet $-10^4 \leq {\sf nums[i]}, {\sf target} \leq 10^4$

Examples



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

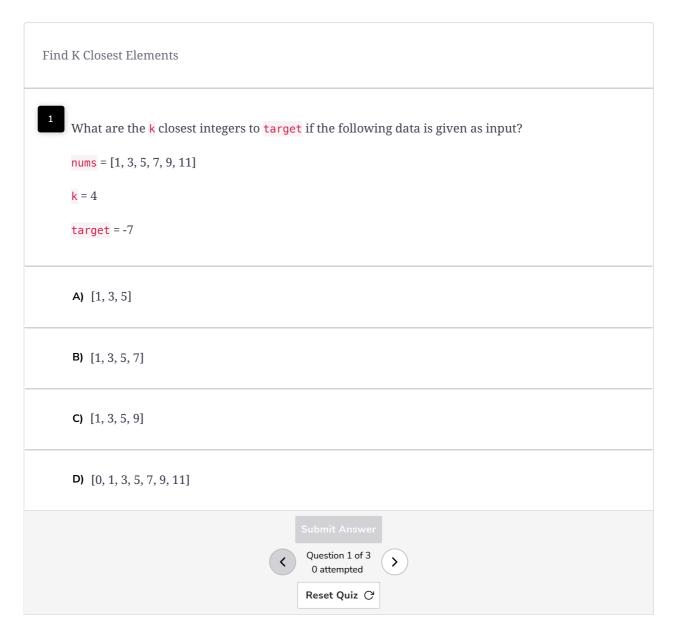
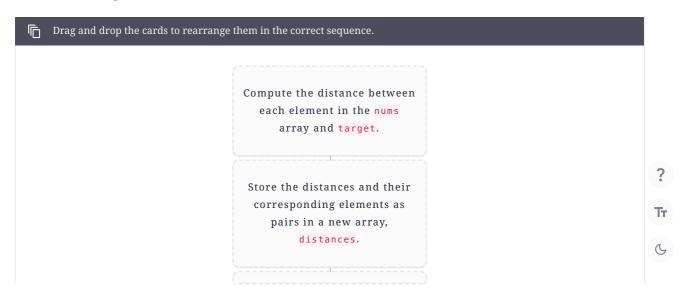
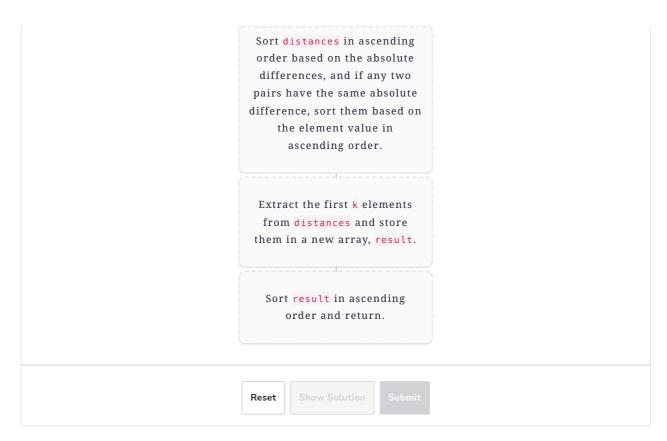


Figure it out!

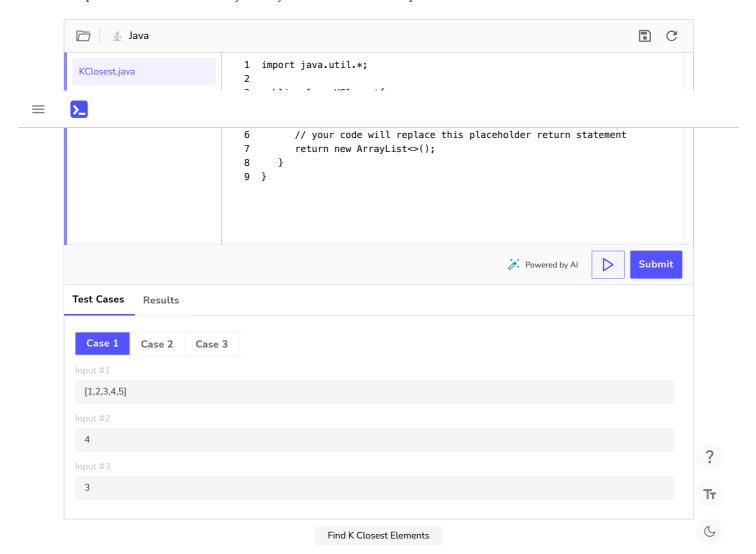
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





Try it yourself

Implement your solution in KClosest.java in the following coding playground. We've provided a useful code template in the other file that you may build on to solve this problem.





Solution: Random Pick...



Solution: Find K Close...



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