Selection from an (implicit) heap [1]. We only need to consider the k smallest elements (after taking abs). $O(n + \text{sort}(k))$.

remark. can we avoid sorting?

Submission Detail
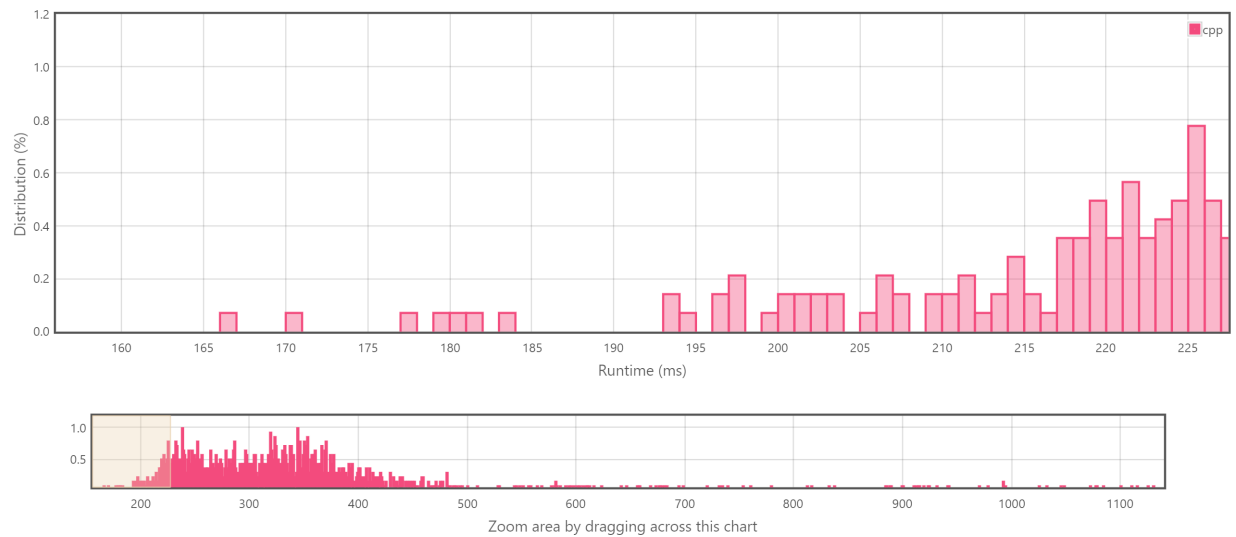
111 / 111 test cases passed.

Runtime: **126 ms**
Memory Usage: **64.1 MB**

Status: **Accepted**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution

Runtime: **126 ms**, faster than **100.00%** of C++ online submissions for Find the K-Sum of an Array.

Memory Usage: **64.1 MB**, less than **44.17%** of C++ online submissions for Find the K-Sum of an Array.

References

[1] Greg N Frederickson. An optimal algorithm for selection in a min-heap. *Information and Computation*, 104(2):197–214, 1993.