

1. Greedy, similar to median selection. $O(n + k)$.
2. Counting sort. $O(n + U)$.
3. Use the result for selecting the k -th largest element in the union of n sorted arrays. $O(n \log \frac{k}{n})$ (for $k \geq n$). See 004. Median of Two Sorted Arrays.
4. Group the numbers into buckets with range $[2^i, 2^{i+1})$. An element in the i -th bucket will go to the $(i - 1)$ -th bucket after an operation. First use weighted median selection to find the bucket where the k -th largest element belong to in $O(\log U)$ time. Then perform median selection within the bucket. $O(n)$ (we can eliminate the $O(\log U)$ term using bit operations).

Remove Stones to Minimize the Total

Submission Detail

59 / 59 test cases passed.

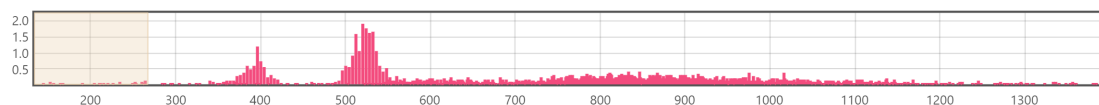
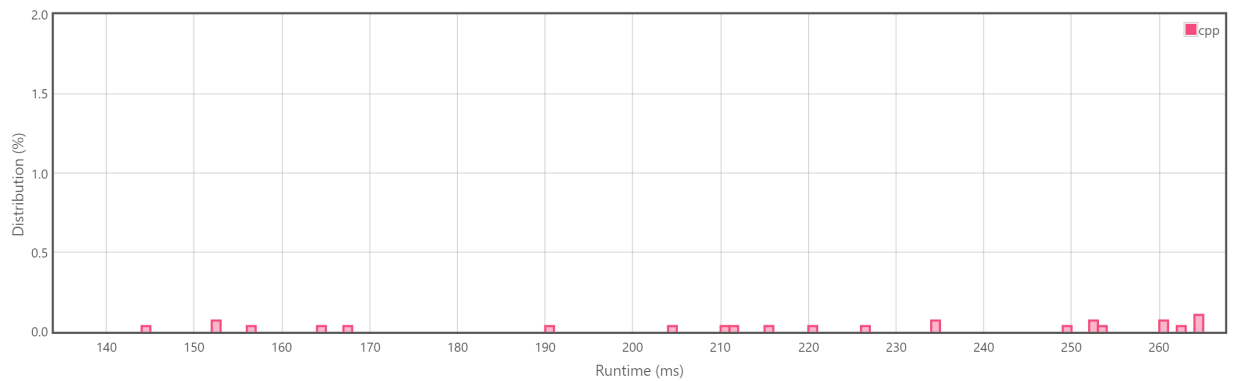
Runtime: **64 ms**

Memory Usage: **94.3 MB**

Status: **Accepted**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Runtime: **64 ms**, faster than **100.00%** of C++ online submissions for Remove Stones to Minimize the Total.

Memory Usage: **94.3 MB**, less than **100.00%** of C++ online submissions for Remove Stones to Minimize the Total.

References