1. Greedy, heap. $O(n \log n)$.
2. Sorting according to the right endpoint in increasing order, then for each interval, greedily place at the leftmost possible position. Two endpoints with distance at least n cannot affect each other, so we can wlog assume $U = O(n^2)$, and thus sorting takes $O(n)$ time. Union find can be implemented in $O(n)$ time in this case (deletion only, using bit packing). $O(n)$.
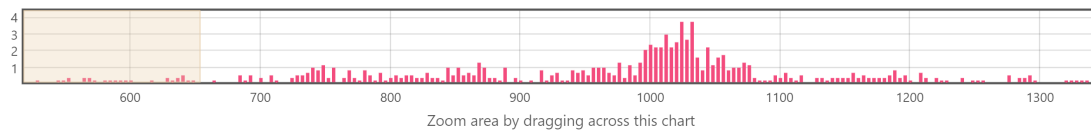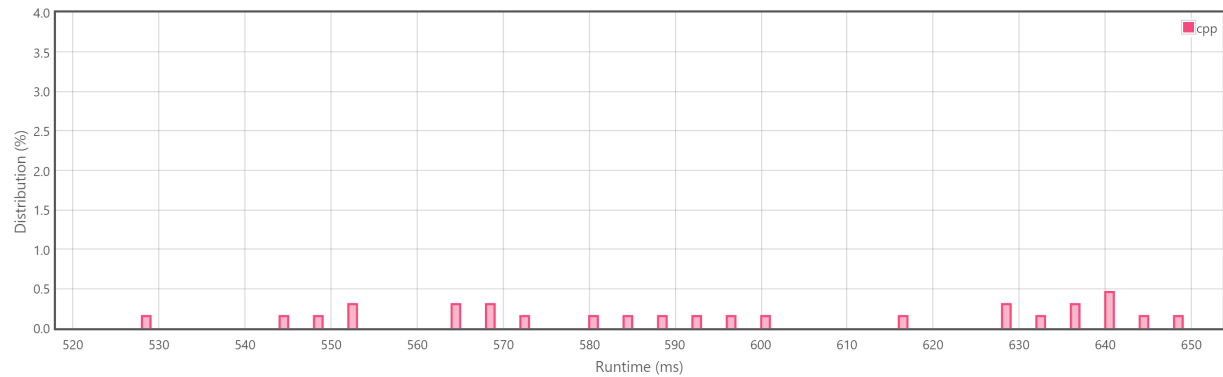
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42 / 42 test cases passed.

Runtime: **340 ms**
Memory Usage: **71.1 MB**

Status: **Accepted**

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution

Runtime: 340 ms, faster than 100.00% of C++ online submissions for Maximum Number of Events That Can Be Attended.

Memory Usage: 71.1 MB, less than 83.84% of C++ online submissions for Maximum Number of Events That Can Be Attended.

References