Ex 2.4.12: Suppose that your application will have a huge number of find the maximum operations, but a relatively small number of insert and remove the maximum operations. Which priority-queue implementation do you think would be most effective: heap, unordered array, or ordered array?

Solution:

Heap is good for avg case for large number of $find_max$ with relatively small number of insert() and $Del_max()$ operations. If you have a large number of del_max ops, then best to use ordered array due to O(1) complexity. If few deletions but more insertions, then an unordered array would be best.