Q1. CLRS : Problems 23-1: Second-best minimum spanning tree

Q2. CLRS : Problems 15-1: Bitonic euclidean traveling-salesman

Q3. CLRS : Problems 15-2: Printing neatly

Q4. CLRS : Problems 15-3: Edit distance

Q5. CLRS : Problems 15-5: Viterbi algorithm

Q6. CLRS : Exercises 17.3-7

Design a data structure to support the following two operations for a set $S$ of integers:

- INSERT($S$, $x$) inserts $x$ into set $S$.
- DELETE-LARGER-HALF($S$) deletes the largest $\lceil S/2 \rceil$ elements from $S$.

Explain how to implement this data structure so that any sequence of $m$ operations runs in $O(m)$ time.