

For Topic4 you need insert element (precolateUp) and deleteMin (precolateDown) functions.

You build heap when you insert elements, you start with empty heap (list) and insert one by one elements from sequence of numbers from input file. When sequence ended – heap is built. When you deleteMin, you need to delete root (first element in heap - list) (there is one to one correspondence between elements in heap and sequence of elements in out file (list – order is different than in input file ). You need to deleteMin in a way, so the structure is still heap after removing element.