Indian Institute of Technology Patna
Department of Mathematics
MA2101: Algorithm Lab
Assignment 2
Full Marks: 20

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1. Implement the randomized algorithm for i-th order statistic problem and run it on the input given in the attached file for $i = 500$.

2. Implement the deterministic algorithm for i-th order statistic problem and run it on the same input for $i = 500$.

   You need to print the total number of comparisons done at the end of execution in both the codes.

   Input file "data.txt" contains 1000 integers of 10 digits each.