

Indian Institute of Technology Mandi
August-November 2017 Semester
**CS202: Advanced Data Structure and
Algorithms
Programming Assignment 1**

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Implement the following sorting algorithms using C++ programming language and sort the input sequence in **ascending order**.

1. Insertion sort
2. Selection sort
3. Rank sort
4. Bubble sort
5. Merge sort
6. Quick sort
7. Heap sort

Note:

1. Program should take n inputs given from the user and display the sorted sequence.
2. Each array is implemented using the sequential linear list data structure ([seqLinearList.hpp](#)).
3. Everyone should use the [seqLinearList.hpp](#) and [sorting.hpp](#) classes provided. Do not change the class names. It is expected to strictly use the interfaces provided in the classes to implement the tasks.