

Lab on Exceptions

- Create a class "ArraySorter" that contains an array (default access) of integers of size 20.
- Have a default constructor and another with an argument to accept an integer that is used for the max. range limit. (use constructor chaining)
- Constructor should initialize the array with random numbers using **java.util.Random** class between ranges of numbers. Default range should be 0 to 200.
- Sort the first 10 elements in the array within an instance method "getSorted".
- Propagate all the exceptions as required from ArraySorter.
 - Try to force all the exceptions to happen and print the stack trace.
- Code another class "TestSorter" that has 'main' method and accept an optional argument that should be passed to the above class as an argument.
- Handle all the propagated exceptions and handle exceptions if argument is missing and if one is given, provide appropriate exception handler while converting the argument to an integer.
- TestSorter creates the above class and print out the array elements after sorting the elements. Let first 10 sorted elements be on one line and rest of them on the 2nd line.
- And finally dispose the array in TestSorter.

Super Hero's Lab: Accept the input from the user and search the array and print the results.