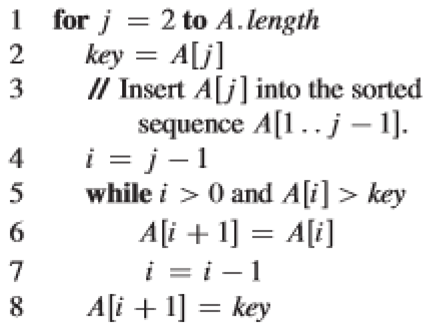
1)
Read on streams from this page
https://docs.oracle.com/javase/tutorial/collections/streams/
Modify the Java assessment of last week's solutions to use streams as much as possible.

2)
The following shows pseudocode to sort an array of numbers.
So if the input = [1,7,2,10,3] the output will be [1,2,3,7,10]

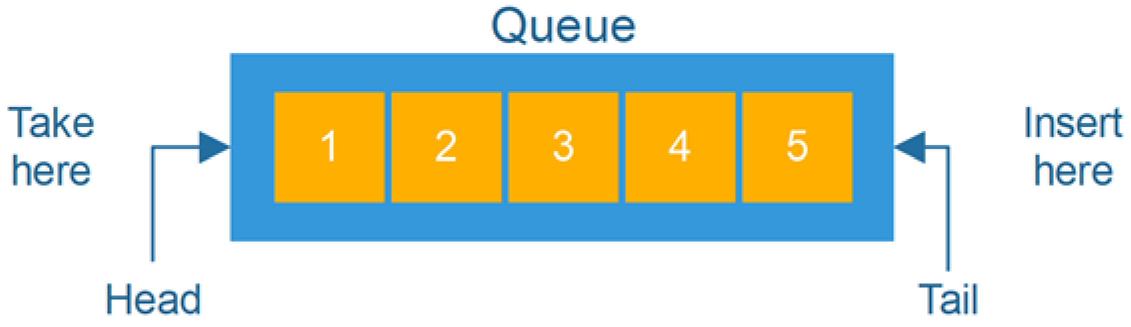


```
for $j = 2$ to $A.length$
    $key = A[j]$
    // Insert $A[j]$ into the sorted
            sequence $A[1\,..\,j-1]$.
    $i = j - 1$
    while $i > 0$ and $A[i] > key$
        $A[i+1] = A[i]$
        $i = i - 1$
    $A[i+1] = key$
```

Try implementing in java code.

3)
Write a code that takes two sorted arrays and merges them into a single array.
(sorted array means that the numbers are in ascending order)
The final merged array should be sorted.

4) We implemented Generic Stack on Day 3. A Stack is a First in Last Out Data structure.
There is a data structure called Queue, which is a First in First Out Data structure.



Implement a Generic Queue. Think of what attributes or methods you will have

5) Implement a method that takes two matrices A and B as input and returns the matrix that is the sum of these two matrices. Now try doing the same thing using threads by implementing a function :
public static double[][] parallelAddMatrix(
double[][] a, double[][] b)