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QuickSort.java
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    // From http://gauss.ececs.uc.edu/Courses/C321/html/quicksort.java.html
    public class QuickSort {
        public static void swap (int A[], int x, int y) {
            int temp = A[x];
            A[x] = A[y];
            A[y] = temp;
10
        public static int partition(int A[], int f, int l) {
            int pivot = A[f];
            while (f < 1) {
                if (A[f] == pivot || A[l] == pivot) {
   // for you to fill this out
15
                while (A[f] < pivot) f++;
while (A[1] > pivot) 1--;
                swap (A, f, 1);
20
            return f;
        public static void Quicksort(int A[], int f, int l) {
            if (f >= 1) return;
25
            int pivot_index = partition(A, f, 1);
            Quicksort(A, f, pivot_index);
            Quicksort(A, pivot_index+1, 1);
30
        public static void main(String argv[]) {
            int A[] = new int[argv.length];
            for (int i = 0; i < argv.length; i ++)
                A[i] = Integer.parseInt(argv[i]);
35
            Quicksort(A, 0, argv.length-1);
            for (int i = 0 ; i < argv.length ; i ++) System.out.print(A[i] + " ");</pre>
            System.out.println();
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