```
public static void quicksort(Comparable[] a, int low, int high) {
// If there's fewer than two elements, do nothing.
if (low < high) {
  int pivotIndex = random number from low to high;
  Comparable pivot = a[pivotIndex];
  a[pivotIndex] = a[high];
                                                   // Swap pivot with last item
  a[high] = pivot;
  int i = low - 1;
  int j = high;
  do {
    do { i++; } while (a[i].compareTo(pivot) < 0);</pre>
    do { j--; } while ((a[j].compareTo(pivot) > 0) && (j > low));
    if (i < j) {
      swap a[i] and a[j];
  } while (i < j);</pre>
  a[high] = a[i];
                                   // Put pivot in the middle where it belongs
  a[i] = pivot;
  quicksort(a, low, i - 1);
                                                 // Recursively sort left list
  quicksort(a, i + 1, high);
                                                 // Recursively sort right list
```