```
public static void sort(int num[])

	item, j
	n = length of num

	i=1
	loop as long as i < n  // more elements to process

		item = num[i] // current element to place

		j = i-1  // previous index

		// keep going back to previous index until
		// find the correct place to insert
		loop as long as j >= 0 AND num[j] > item

			num[j+1] = num[j] // copy value to the right to make space
			num[j+1] = item   // put current value in that cleared space
			decrement j by 1  // need to loop to move more to left

		increment i by 1  // process next element
```