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PE 5

Number Sorting Algorithm

The 5 randomly-numbered index cards represent an unsorted array, and the 5 blank index cards will contain the sorted array.

Put the unsorted pile to your left, and place the 5 blank sheets of paper in a pile to your right.

Submit a Word document which has in English (not computer code) the exact steps to sort and copy the numbers in ascending order from the pile on the left to the pile on the right, without changing the order of the unsorted array. Any time you touch any piece of paper, you must have an instruction written down.

1. Go through the unsorted pile and find the smallest number
2. Write the number on one of the blank sheets and add it to the front of the pile on the right
3. Go through the unsorted pile again and find the next smallest number
4. Write that number down on the second blank sheet and add it to the sorted sheet line, after the first number
5. Go through the unsorted pile and find the next smallest number
6. Write it down on the third blank sheet and add it to the sorted sheet line, after the second number
7. Go through the unsorted pile and find the next smallest number
8. Write it down on the fourth blank sheet and add it to the sorted sheet line, after the third number
9. Go through the unsorted pile and find the next largest number
10. Write it down on the last blank sheet and add it to the end of the sorted sheet line