Consider the following algorithm:

```
def order(L):
""" (list of numbers) -> None
    Order L from smallest to largest. L is changed in-place. """
i = 1
while i < len(L):
    j = i
    while j > 0 and L[j] < L[j-1]:
    L[j], L[j-1] = L[j-1], L[j] # swap L[j] and L[j-1]
    j = j - 1
i = i + 1</pre>
```

1. Compute the number of "swaps" (executing the line that says swap) performed by the algorithm in the worst-case, on any list L of length n.

2. Compute the number of "steps" (basic operations) performed by the algorithm in the worst-case, on any list L of length n. Count a step each time a line is visited.