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
```

1. Compute the exact 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 exact number of "steps" (basic operations) performed by the algorithm in the worst-case, on any list $L$ of length $n$.
