#7 - Tracing Sorting Algorithms - 15pts

In the table below, each row represents a 'pass' - a single iteration of the outer loop in the function. Fill in the number of comparisons and swaps that happen in each pass, and the state of the list at the **end** of that pass, for **selection sort** as implemented in class. We've filled in the first row for you.

Pass #	Comparisons	Swaps	List State
Start	-	-	[5, 4, 2, 3, 6, 7, 1]
1	6	1	[1, 4, 2, 3, 6, 7, 5]
2			
3			
4			
5			
6			

In the next table, each row will represent either a **split-pass** (S) or a **merge-pass** (M). Fill in the number of comparisons and copies that happened in each pass, and the state of each of the list(s) at the **end** of that pass, for **merge sort** as discussed in class. We've filled in the first row for you.

Pass #	Comparisons	Copies	List(s) State
Start	-	-	[5, 4, 2, 3, 6, 7, 1]
S1	0	7	[5, 4, 2][3, 6, 7, 1]
S2			
S3			
M1			
M2			
М3			