If L=[11,6,5,8,9,15] Then smallest_first(L) should return [5,8,9,15,11,6].

why? Think of L as a repeating cycle:

$$|1 \rightarrow 6 \rightarrow 5 \rightarrow 8 \rightarrow 9 \rightarrow 15$$
REDRAW
$$9 \leftarrow 8$$

Locate the smallest number in the cycle:

Now list out the valves you see by going around this aycle starting at the smallest valve: