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Summary:

Before running any algorithm on the lists of processes i use the standard lib quick sort to and create a compare function that i passing as the method of sorting to break the tie. I first compare by arrival then PID. I then use the same pattern in each whether its circular indexing or storing pointer to the shortest job. FCFS handles processes in the order they arrive, checking their status to see if they are terminated, blocked, not started, or ready. SJF aims to minimize waiting time by selecting the process with the shortest remaining CPU time, also monitoring similar statuses. In contrast, RR uses a quantum to each process, allowing it to run for its duration or until completion, returning to the ready queue if not finished. Despite their differences, all three algorithms rely on status checks to determine which processes to execute where i update times and metrics accordingly in the loops.