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| Algorithm | Preemptive/Non Preemptive | Scheduling Principle | Advantage | Disadvantages |
| FCFS Algorithm | Non preemptive | Order of arrival | Simple to implement | Throughput is not efficient |
| SJF Algorithm | preemptive | Arrival time and process time | Short jobs are Favored | Long running  Cpu bound jobs can starve |
| Priorty Algorithm | preemptive | Priorty set | Higher priorty get serviced first | Processes with lesser priority may starve for cpu |
| Round Robin | preemptive | Time quantum set | Each process gets fair chance to run on cpu | Increased context switching |