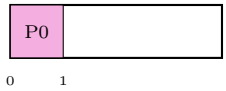
1 SRT Scheduling

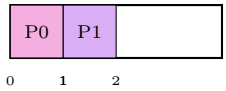
Introduction

Shortest Remaining Time (SRT) scheduling is one of the scheduling algorithms in operating systems that is used to manage processes. This algorithm is an advanced version of the Shortest Job Next (SJN) algorithm. In SRT, the process with the shortest remaining time is executed, and if a new process with a shorter remaining time enters the system, the algorithm switches to that new process.

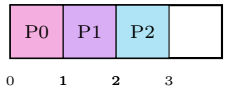
1.1 Time 0: Process P0



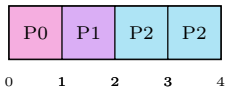
1.2 Time 1: Process P1



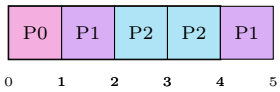
1.3 Time 2: Process P2



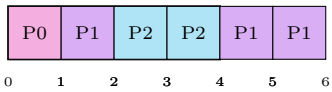
1.4 Time 3: Process P2



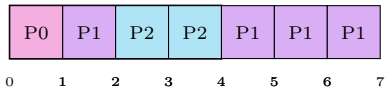
1.5 Time 4: Process P1



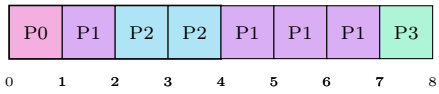
1.6 Time 5: Process P1



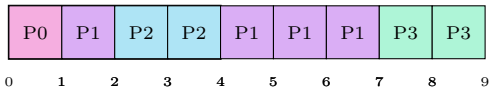
1.7 Time 6: Process P1



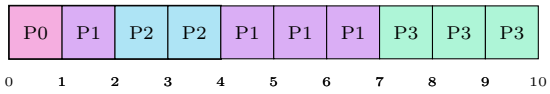
1.8 Time 7: Process P3



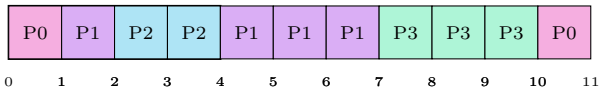
1.9 Time 8: Process P3



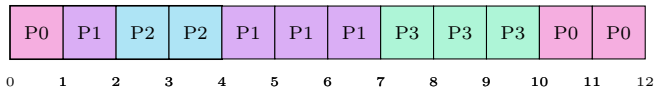
1.10 Time 9: Process P3



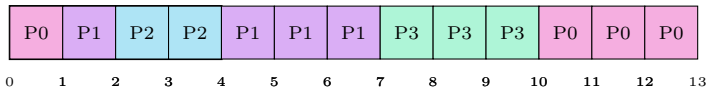
1.11 Time 10: Process P0

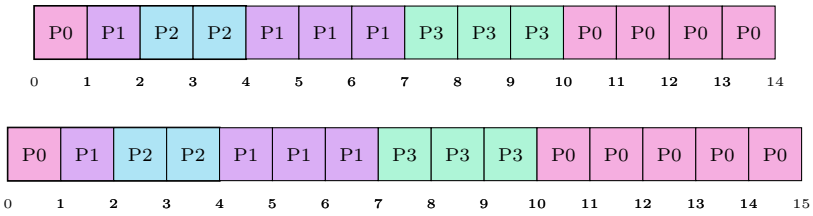


1.12 Time 11: Process P0



1.13 Time 12: Process P0





1.14 Time 13: Process P0

1.15 Time 14: Process P0

1.16 Final Process Table

Process	Arrival Time	Burst Time	Completion Time
P0	0	6	15
P1	1	4	7
P2	2	2	4
P3	3	3	10

1.17 Execution Order