

# FCFS

## Input:

Compare different process scheduling algorithms. Input the number of processes and their details, select an algorithm, and this tool will compute and visualize the results for you.

### Input Processes

Number of Processes:

Process P1:

Process P2:

Process P3:

Process P4:

Process P5:

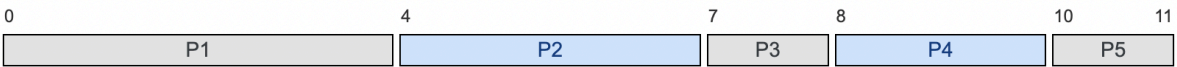
Select Scheduling Algorithm:

First Come First Serve (FCFS): Processes are scheduled in the order they arrive.

## Output:

# FCFS Scheduling

| Process ID | Arrival Time | Burst Time | Completion Time | Turnaround Time | Waiting Time |
|------------|--------------|------------|-----------------|-----------------|--------------|
| P1         | 0            | 4          | 4               | 4               | 0            |
| P2         | 1            | 3          | 7               | 6               | 3            |
| P3         | 2            | 1          | 8               | 6               | 5            |
| P4         | 3            | 2          | 10              | 7               | 5            |
| P5         | 4            | 1          | 11              | 7               | 6            |



Average Turnaround Time: 6.00

Average Waiting Time: 3.80

# SJF

## Input:

Compare different process scheduling algorithms. Input the number of processes and their details, select an algorithm, and this tool will compute and visualize the results for you.

### Input Processes

Number of Processes:

Process P1:

Process P2:

Process P3:

Process P4:

Process P5:

Select Scheduling Algorithm:



Shortest Job First (SJF): Processes with the shortest burst time are scheduled first.

*Output:*

### SJF Scheduling

| Process ID | Arrival Time | Burst Time | Completion Time | Turnaround Time | Waiting Time |
|------------|--------------|------------|-----------------|-----------------|--------------|
| P1         | 2            | 6          | 9               | 7               | 1            |
| P2         | 5            | 2          | 11              | 6               | 4            |
| P3         | 1            | 8          | 23              | 22              | 14           |
| P4         | 0            | 3          | 3               | 3               | 0            |
| P5         | 4            | 4          | 15              | 11              | 7            |



Average Turnaround Time: 9.80

Average Waiting Time: 5.20

# SRTF

## Input:

Compare different process scheduling algorithms. Input the number of processes and their details, select an algorithm, and this tool will compute and visualize the results for you.

### Input Processes

Number of Processes:

5

Process P1:

2

6

Process P2:

5

2

Process P3:

1

8

Process P4:

0

3

Process P5:

4

4

Select Scheduling Algorithm:

Shortest Job First (SJF)

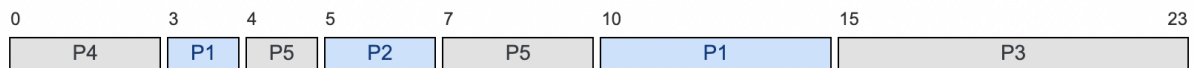


Shortest Job First (SJF): Processes with the shortest burst time are scheduled first.

*Output:*

### SRTF Scheduling

| Process ID | Arrival Time | Burst Time | Completion Time | Turnaround Time | Waiting Time |
|------------|--------------|------------|-----------------|-----------------|--------------|
| P1         | 2            | 6          | 15              | 13              | 7            |
| P2         | 5            | 2          | 7               | 2               | 0            |
| P3         | 1            | 8          | 23              | 22              | 14           |
| P4         | 0            | 3          | 3               | 3               | 0            |
| P5         | 4            | 4          | 10              | 6               | 2            |



Average Turnaround Time: 9.20

Average Waiting Time: 4.60

# RR

*Input:*

## Input Processes

Number of Processes:

Process P1:

Process P2:

Process P3:

Process P4:

Select Scheduling Algorithm:

Round Robin (RR): Each process is assigned a fixed time in cyclic order.

Time Quantum (for RR):

Add Process

Remove Process

Schedule Processes

*Output:*

### Round Robin Scheduling

| Process ID | Arrival Time | Burst Time | Completion Time | Turnaround Time | Waiting Time |
|------------|--------------|------------|-----------------|-----------------|--------------|
| P1         | 0            | 5          | 12              | 12              | 7            |
| P2         | 1            | 4          | 11              | 10              | 6            |
| P3         | 2            | 2          | 6               | 4               | 2            |
| P4         | 4            | 1          | 9               | 5               | 4            |



Average Turnaround Time: 7.75

Average Waiting Time: 4.75