

CS162, Spring 2004
 Section 6 Quiz 1
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Directions: Complete the following questions as best you can. You're encouraged to discuss these questions with the people around you. This quiz IS NOT GRADED. Its only intended to help you understand the material.

1. Consider the following processes and their associated arrival times and processing time requirements.

| Process | Arrival Time | Processing Requirements |
|---------|--------------|-------------------------|
| A | 0 | 1 |
| B | 2 | 5 |
| C | 3 | 1 |
| D | 6 | 3 |

Complete the following table to indicate which process will be scheduled on the CPU using different scheduling algorithms. Assume that the time slice is 1 unit. For RR, assume that new processes are scheduled immediately.

| Time | FIFO | RR | SJF | SRTF |
|------|------|----|-----|------|
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |

2. Compute the average response time for each algorithm. Which algorithm provides the fastest average response time in this example? Does that algorithm always provide the fastest response time?