Class example from Fri. Feb. 16.

(a) With priority list $T_1, T_2, T_3, T_4, T_5, T_6, T_7$ and 2 processes

$P_1 \quad \begin{array}{c} T_1 \quad 7 \quad T_7 \quad \text{Idle} \quad T_3 \quad T_4 \end{array}$

$P_2 \quad \begin{array}{c} T_2 \quad 10 \quad T_6 \quad 13 \quad 14 \quad 20 \quad \text{Idle} \quad 29 \quad 35 \end{array}$

At $t=0$, $T_1, T_2, T_6, T_7$ ready; at $t=5$, $T_6, T_7$ ready; at $t=10$, $T_7$ ready; at $t=13$, $T_5$ ready.

At $t=14$, nothing is ready. At $t=20$, $T_3$ is ready. At $t=29$, $T_4$ is ready.

(b) Using the critical path method: The paths are

$T_1 \rightarrow T_3 \rightarrow T_4 \ 25$ - The longest path begins with $T_6$, when we delete $T_1 \rightarrow T_3 \rightarrow T_4 \ 23$ - This, the longest path begins with $T_1$, when $T_6 \rightarrow T_5 \rightarrow T_3 \rightarrow T_4 \ 27$ - This, the longest path begins with $T_2$, $T_7 \ 4$ - Similarly, $T_5, T_3, T_4$ and finally $T_7$

This gives us the priority list $T_6, T_1, T_2, T_5, T_3, T_4, T_7$

$P_1 \quad \begin{array}{c} T_6 \quad T_2 \quad T_1 \quad T_7 \quad T_3 \quad T_4 \end{array}$

$P_2 \quad \begin{array}{c} T_1 \quad T_5 \quad T_10 \quad 13 \quad 17 \quad \text{Idle} \quad 26 \quad 32 \end{array}$

At $t=0$, $T_1, T_2, T_6, T_7$ ready; at $t=5$, $T_2, T_5, T_7$ ready; at $t=10$, $T_6, T_7$ ready; at $t=13$, only $T_7$ is ready; at $t=17$, only $T_3$ is ready; at $t=26$, $T_4$ is ready.