COMPLETION-TIME-SCHEDULE(S)

1 compute an optimal schedule for the preemptive version of the problem
2 renumber the tasks so that the completion times in the optimal
preemptive schedule are ordered by their completion times
$C_1^P < C_2^P < \cdots < C_n^P$ in SRPT order
3 greedily schedule the tasks nonpreemptively in the renumbered
order $a_1, \ldots, a_n$
4 let $C_1, \ldots, C_n$ be the completion times of renumbered tasks $a_1, \ldots, a_n$
in this nonpreemptive schedule
5 **return** $C_1, \ldots, C_n$