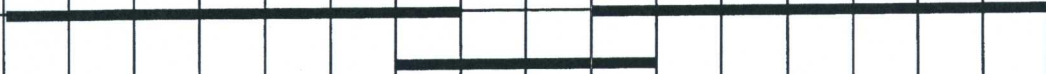


Interval Scheduling Problem



Earliest start does not work



Shortest does not work

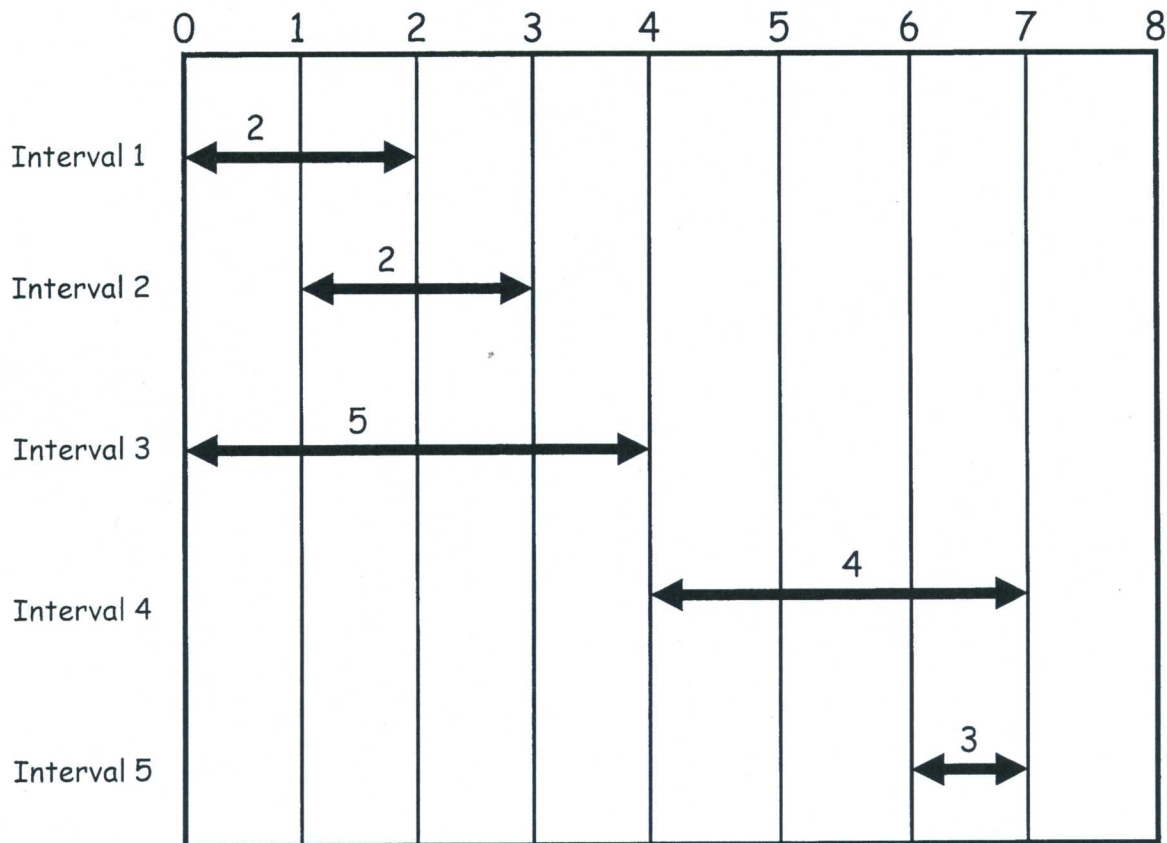


Min-Conflict does not work

Interval Scheduling Problem: Ideas

- Sort intervals by f_i
- Define $F(n)$ to be the maximum return
- $F(n)$ either
 - Includes (s_n, f_n) or
 - Does not include (s_n, f_n)
- $p(n)$ subset $\sim F(n)$
 - $p(1) = 0$
 - $p(2) = 0$
 - $p(5) = 3$

Interval Scheduling Problem: Example



- $(s_1, f_1) = (0, 2)$
 - $(s_2, f_2) = (1, 3)$
 - $(s_3, f_3) = (0, 4)$
 - $(s_4, f_4) = (4, 7)$
 - $(s_5, f_5) = (6, 7)$
- } Starting and finishing points of the interval