

CS255 Feb.13 In-Class Exercise

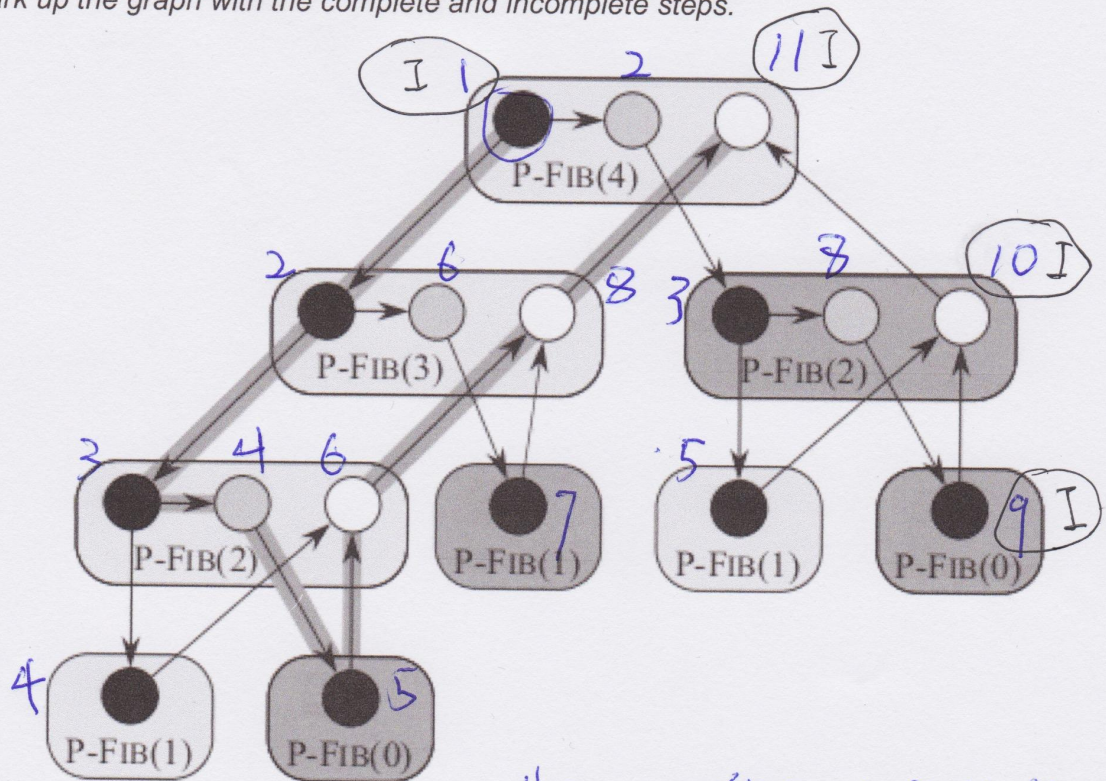
1. What would be the maximum run time according to Brent/Blumofe Leirsons's theorem?

Based on Brent's Algorithm,

$$T_1 = 17, T_\infty = 8.$$

$$\therefore T_2 \leq \frac{T_1}{P} + T_\infty = \frac{33}{2}$$

2. Mark up the graph with the complete and incomplete steps.



11 steps, Steps 1, 9, 10, 11 are incomplete.

3. How many steps does the computation actually take?