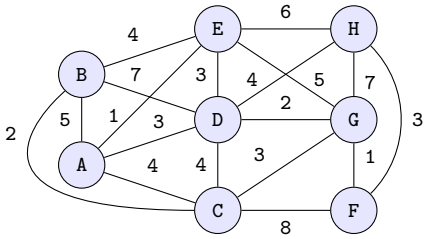
Today: Synthesis (pairing heaps for shortest paths), catch-up, and review.
Next class: Midterm exam 2.
Reminders: Practice depicting the action of all algorithms neatly.

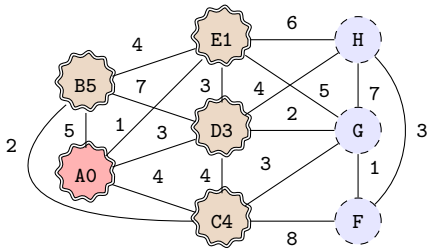
1. Write your group identifier (e.g., C3) and its members' names Underline your name.

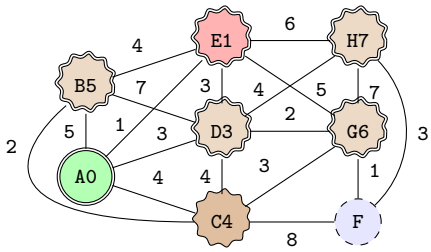
2. Trace the action of Dijkstra's single-source shortest-path algorithm on the following graph, with source `A`.

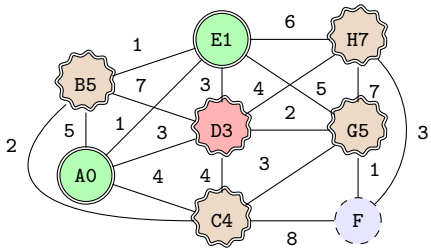
   Use a *pairing heap* to maintain current distances and clearly depict the state of the heap after each change.



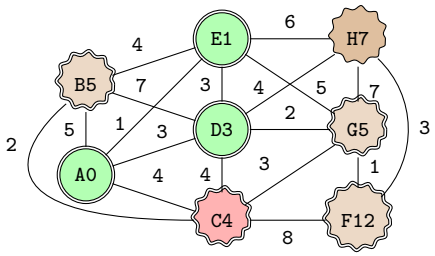
[Draw pairing heaps in this column]







[additional space for answering the earlier question]



[continue...]

3. ⋆ Is it possible to draw the above graph without any pair of edges crossing? Justify your answer.