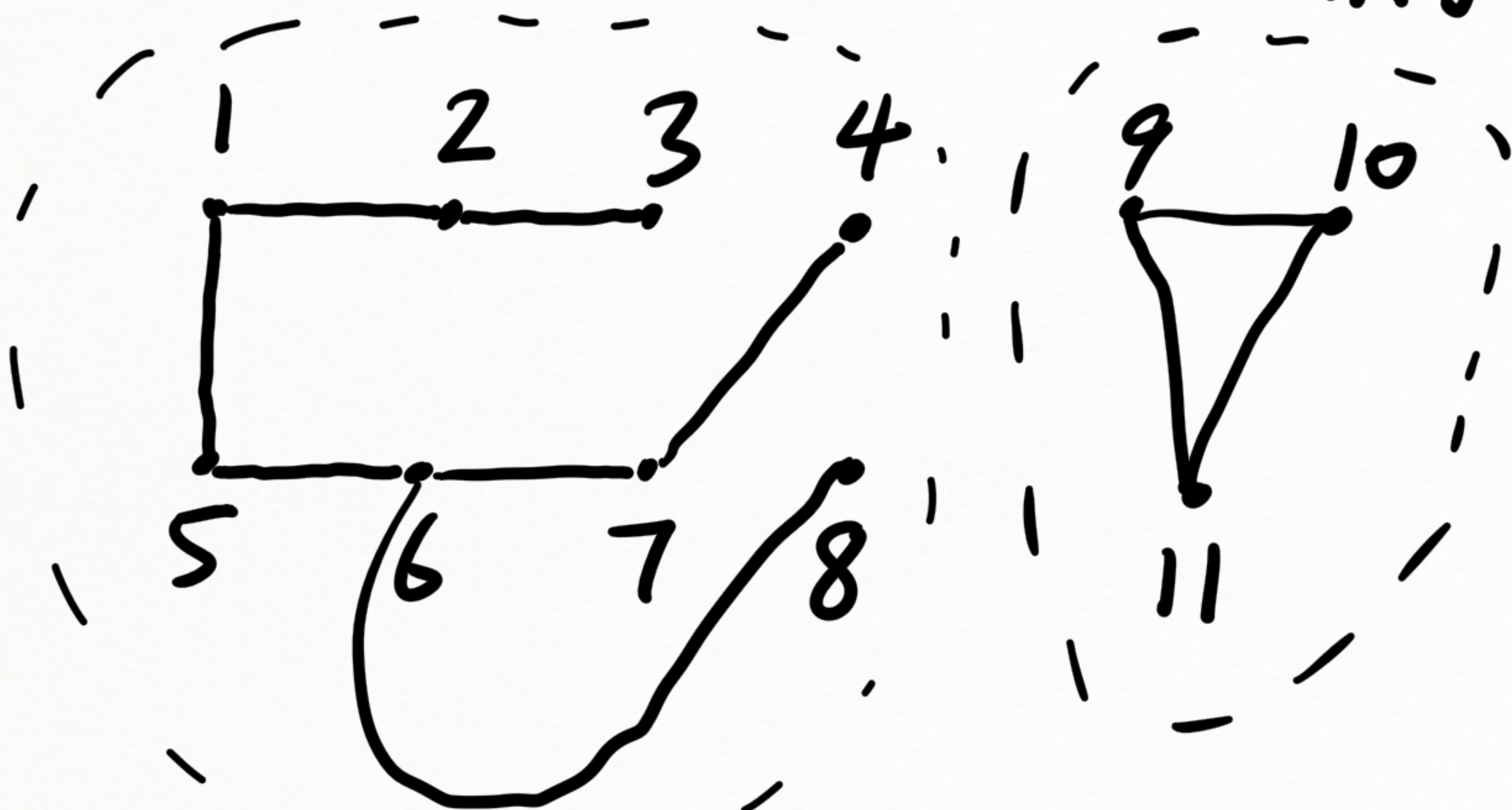
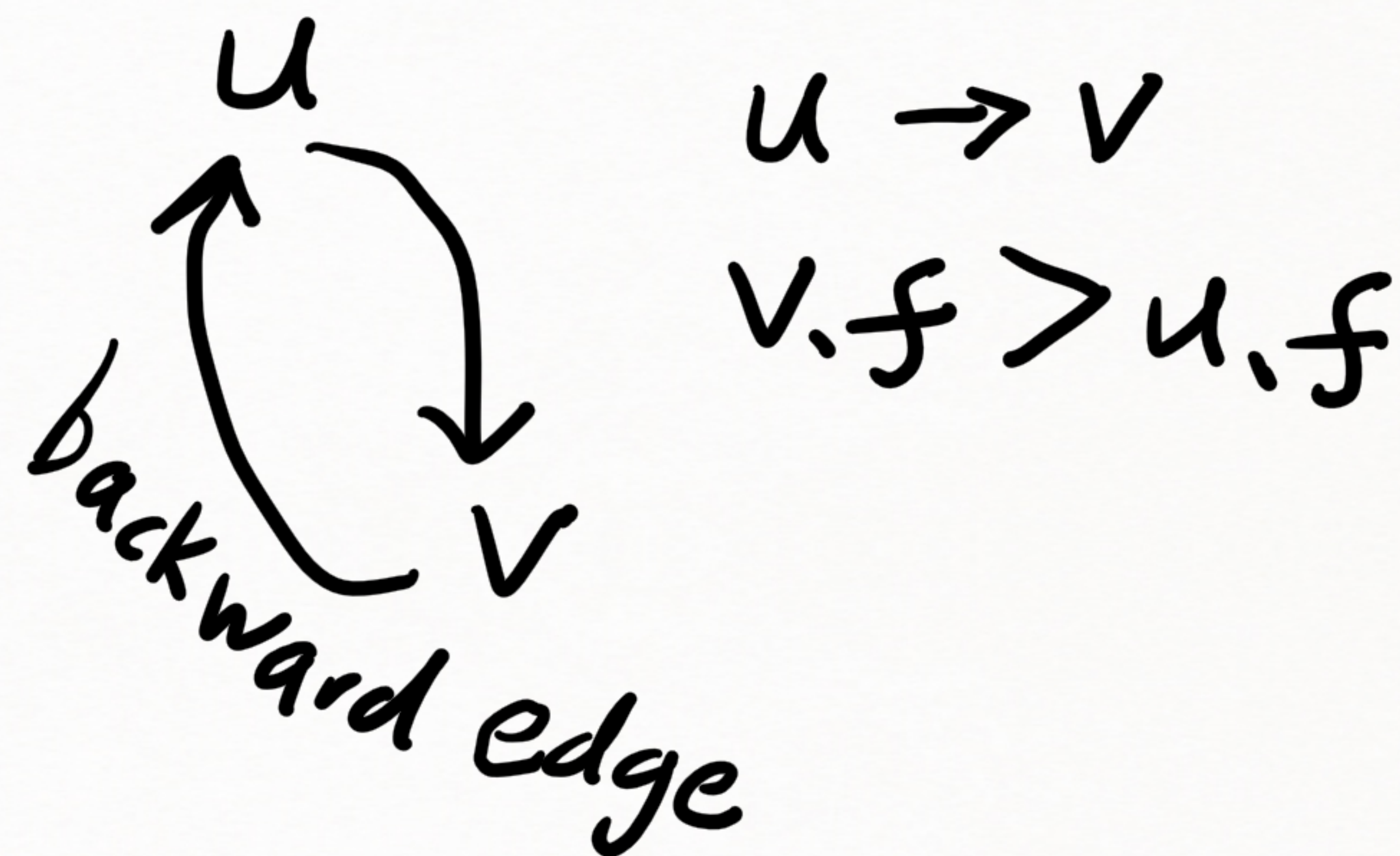


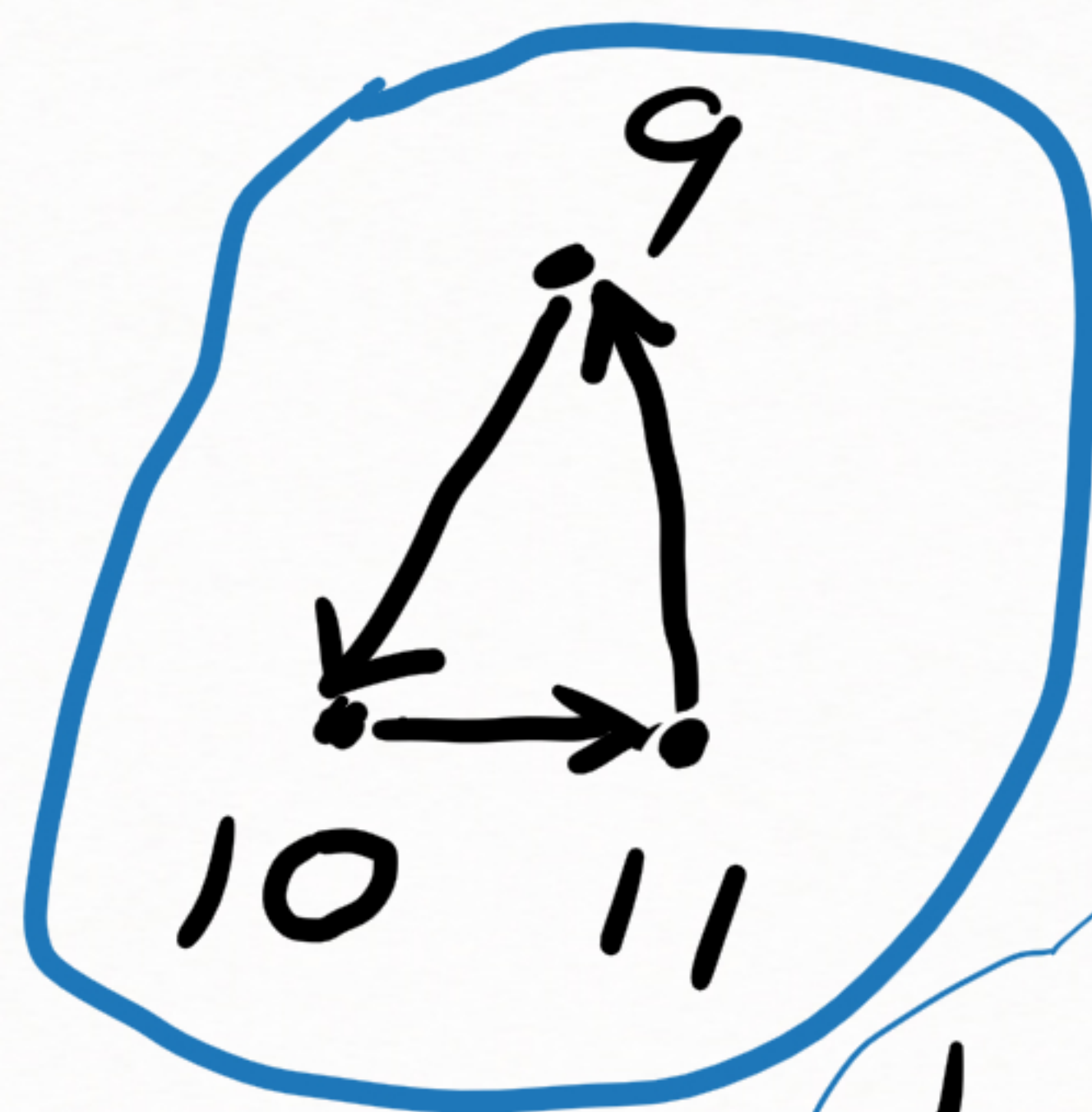
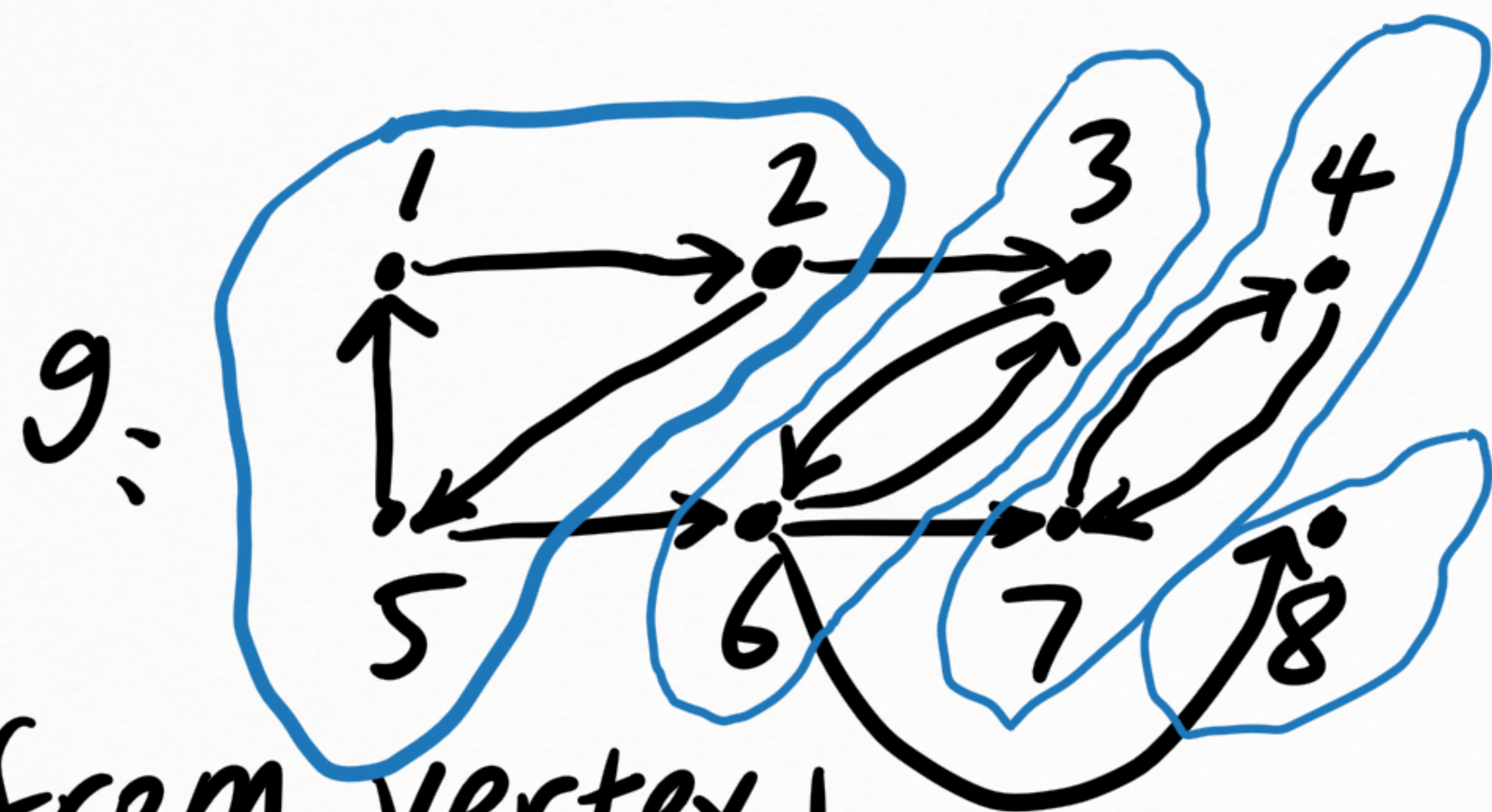
algo: 1. run $\text{dfs}(g)$; 2. output vertices based on finishing time

$$V_1.f > V_2.f > \dots > V_n.f$$



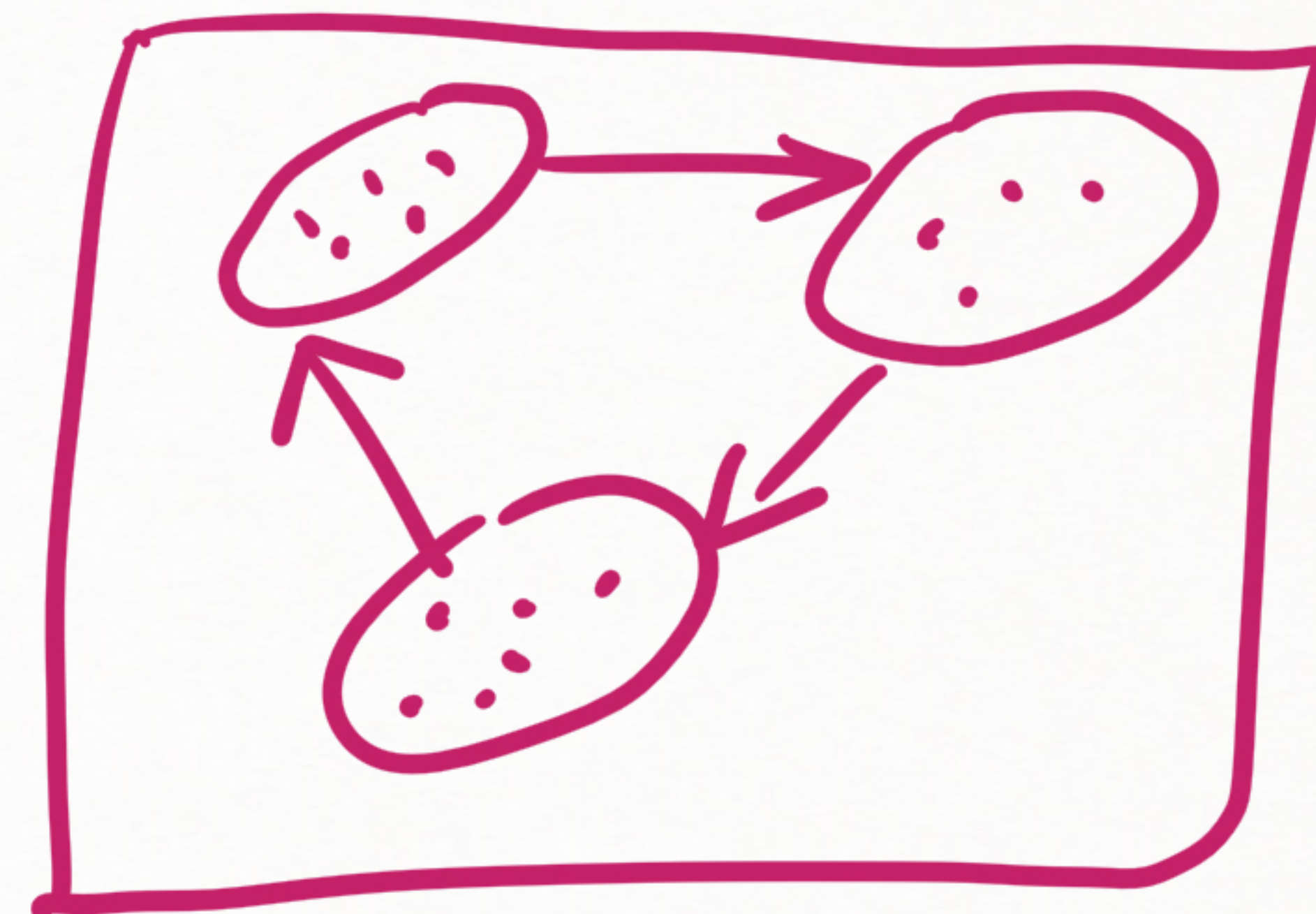
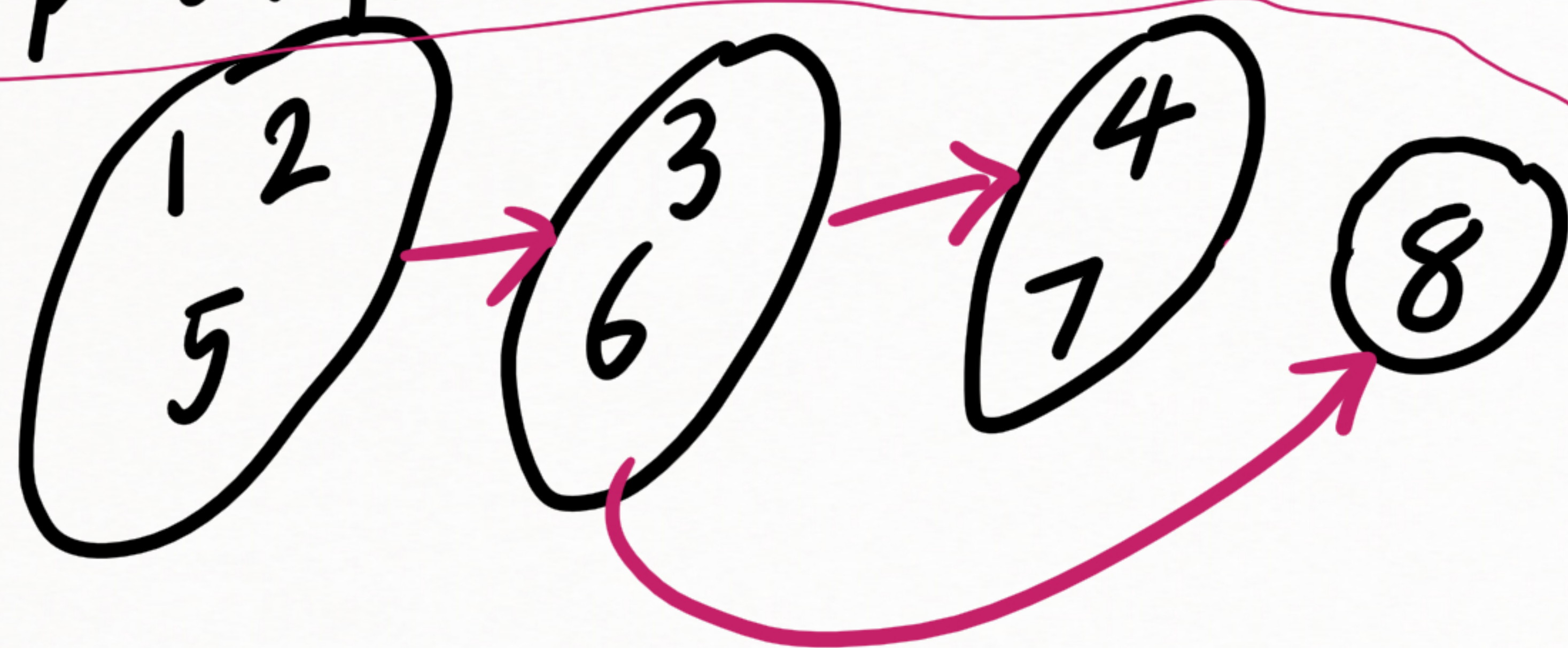
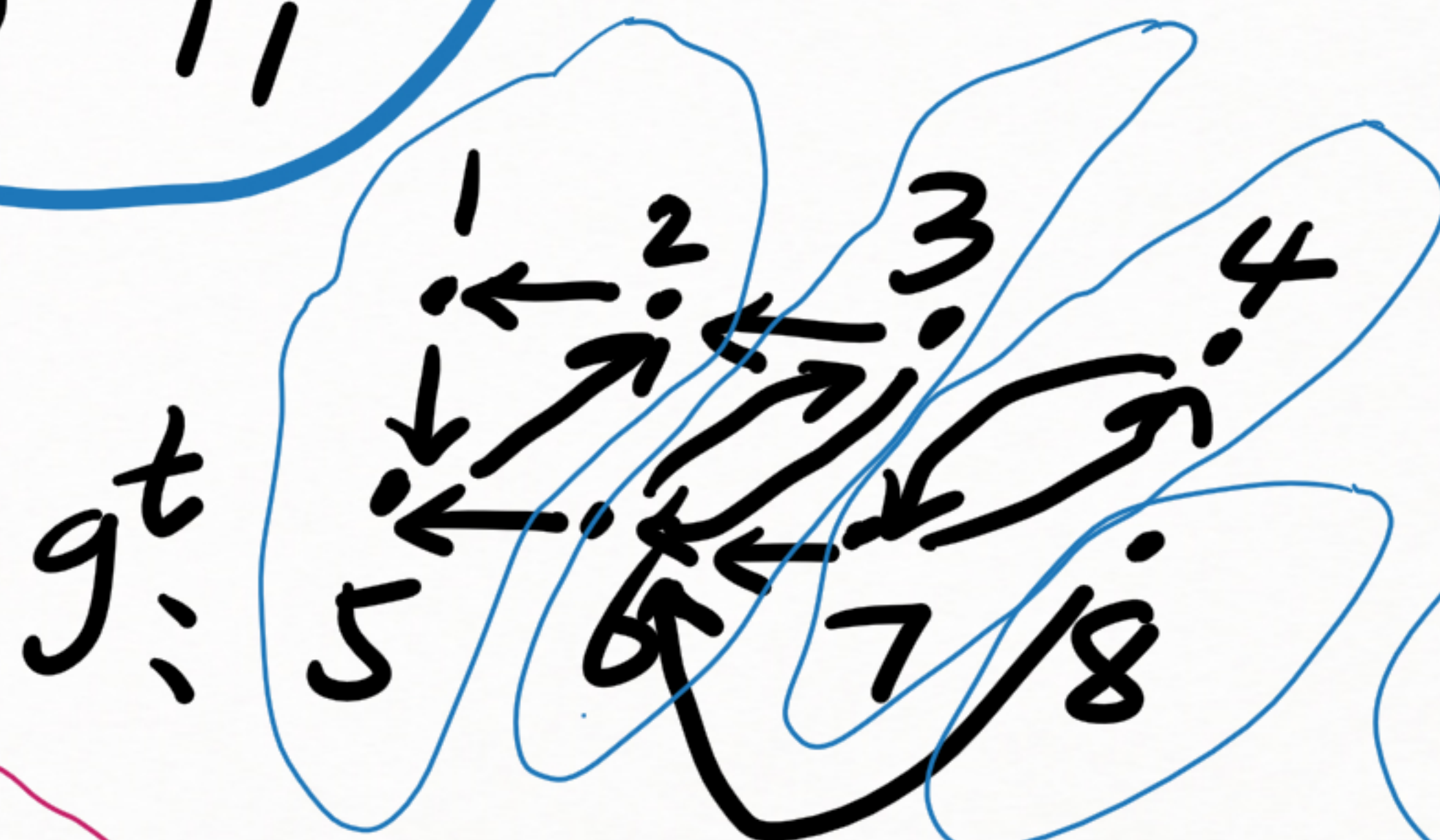
2 connected component





5 strongly connected components

from vertex 1,
can reach vertex $\in \{2, \dots, 8\}$
no path from 6 to 1



merge into 1 scc