9.7a

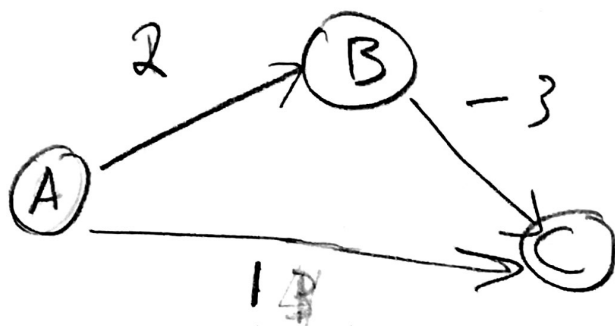| V	Known	d_v	P_v
A	F T	0	0
B	F	2	A
C	F T	1	A

Algorithm terminates here.

It seems like the shortest distance to C is directly from A (the starting vertex).

However, it's actually through B.

$$2 + (-3) = -1$$
$$A \to B \quad B \to C$$

Therefore, it's possible for Dijkstra's algorithm to give the wrong answer in the presence of a negative edge but no negative cycle.