

# CPSC 335 - Algorithm Engineering

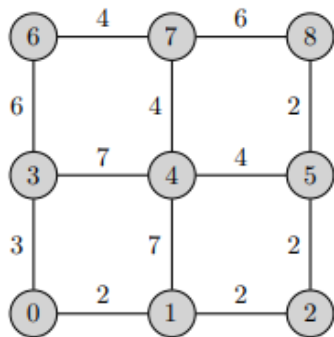
Project 2, Summer 2021, Session A

Nathan Landino, Carson Carpenter

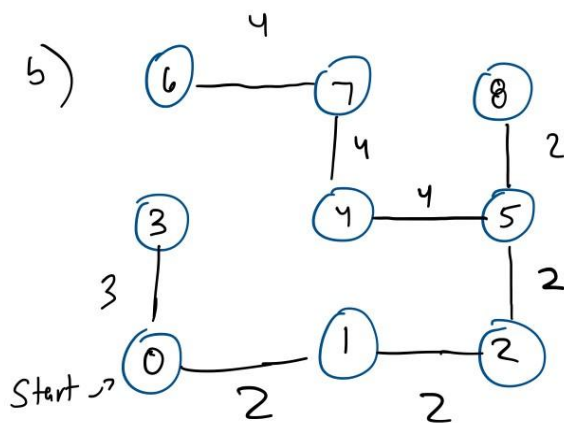
## 1. Executing the Prim-Jarnik algorithm by hand

6-3. Execute the Prim-Jarnik algorithm by hand on the following graphs. Show your work.

(b) The following:

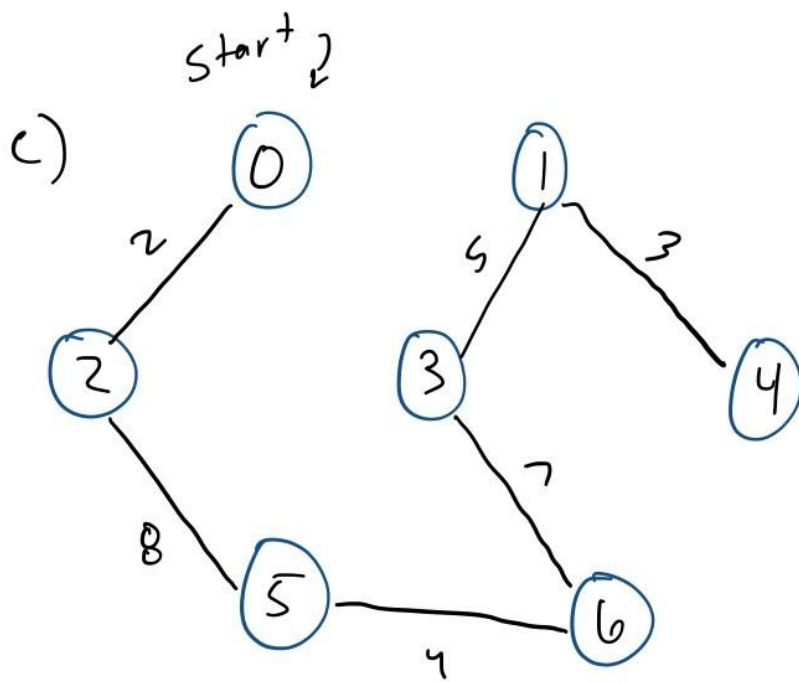
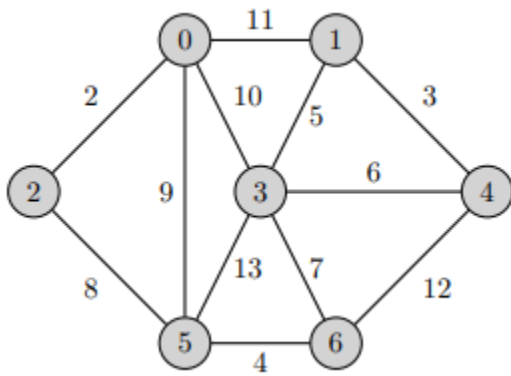


Looking for min weight (shortest Bridge)



$$= 2 + 2 + 2 + 2 + 2 + 4 + 4 + 4$$
$$= 23$$

(c) The following:



$$= 2 + 8 + 4 + 7 + 5 + 3$$

$$= 29$$