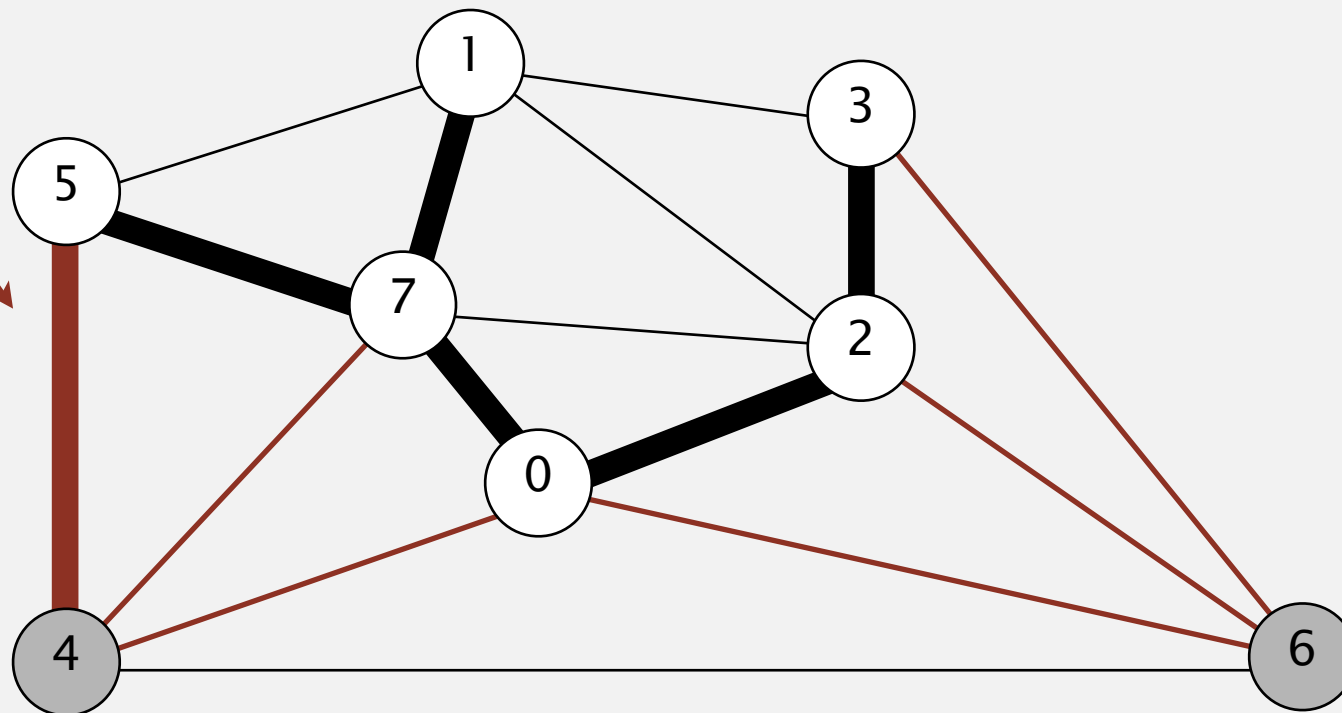


# Prim's algorithm demo

- Start with vertex 0 and greedily grow tree  $T$ .
- Add to  $T$  the min weight edge with exactly one endpoint in  $T$ .
- Repeat until  $V - 1$  edges.

min weight edge with  
exactly one endpoint in  $T$



edges with exactly  
one endpoint in  $T$   
(sorted by weight)

in MST →

4-5	0.35
4-7	0.37
0-4	0.38
6-2	0.40
3-6	0.52
6-0	0.58

**MST edges**

0-7   1-7   0-2   2-3   5-7