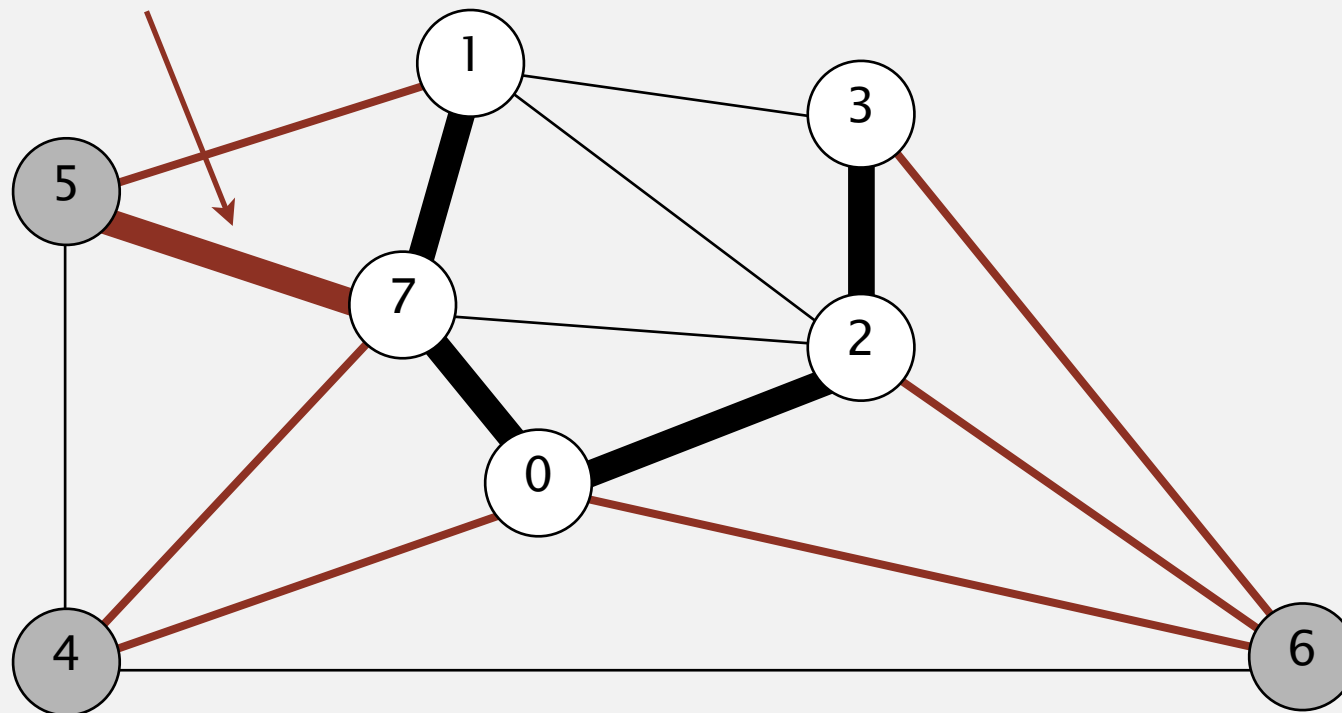# Prim's algorithm demo

- 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 ⟶ 5-7   0.28
1-5   0.32
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