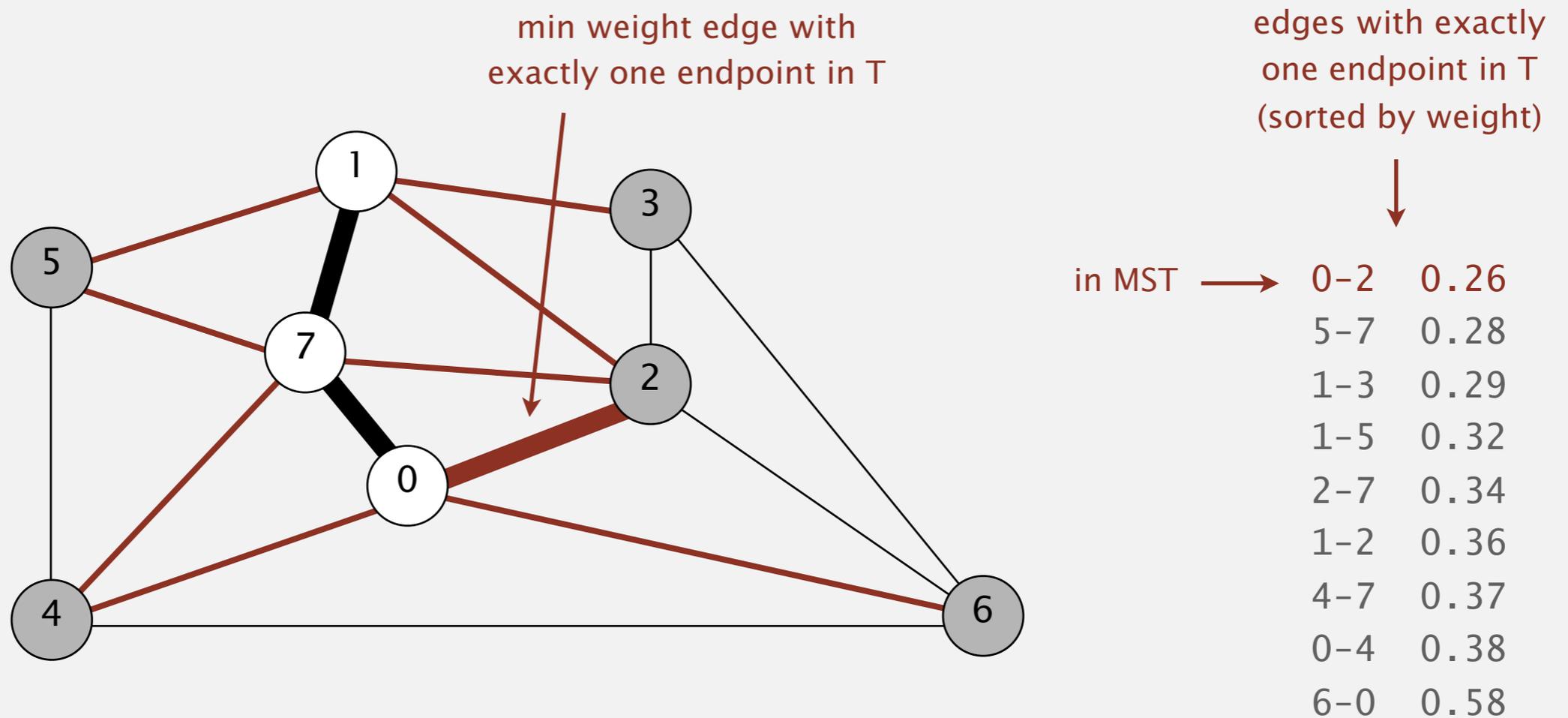# Prim's algorithm demo

- 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 ⟶ 0–2 0.26
5–7 0.28
1–3 0.29
1–5 0.32
2–7 0.34
1–2 0.36
4–7 0.37
0–4 0.38
6–0 0.58

MST edges

0–7   1–7