2.)
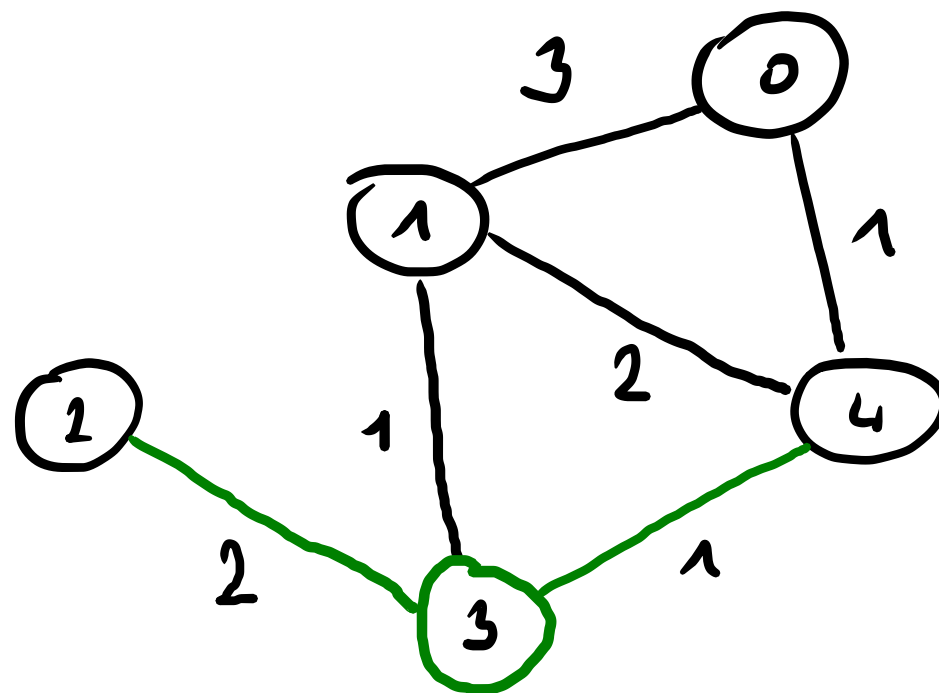
$u = 3$

$Q = [0, 2, 4]$

$v \in \{\cancel{1}, 2, 4\}$

$key = [3, 0, 2, 1, 1]$

$\pi = [1, NULL, 3, 1, 3]$

3.)

$u = 4$

$Q = [0, 2]$

$v \in \{0, \cancel{1}, \cancel{3}\}$

$key = [1, 0, 2, 1, 1]$

$\pi = [4, NULL, 3, 1, 3]$