D(u, 0) = 0 for u = s
D(u, 1) = W(s, u)

D(u, k) = \min_{m=1}^{k} \{ D(u, k-1) + W(m, u) \}

for k = 2 to n - 1
for u = 1 to n
D(u, n) = D(u, n-1)
for m = 1 to n
D(u, n) = \min \{ D(u, n), D(m, n-1) + W(m, u) \}

\( O(n^3) \) time
example graph
example graph

m decreaseKey
n extractMin