$opt(q_0, q_1, q_2, q_3, q_4, q_5, m) \rightarrow opt(2, 4, 9, 11, 17, 20, 3)$

$cost(q_0) + opt(q_1, q_2, q_3, q_4, q_5, m-1) \rightarrow cost(2) + opt(4, 9, 11, 17, 20, 2) = 0 + 10 = 10$

min

$cost(q_1) + opt(q_2, q_3, q_4, q_5, m-1) \rightarrow cost(4) + opt(9, 11, 17, 20, 1) = 0 + 17 = 17$

$\hookrightarrow cost(q_2, q_3, q_4, q_5) \rightarrow cost(9, 11, 17, 20) = 17$

$cost(q_1, q_2) + opt(q_3, q_4, q_5, m-1) \rightarrow cost(4, 9) + opt(11, 17, 20, 1) = 5 + 9 = 14$

$\hookrightarrow cost(q_3, q_4, q_5) \rightarrow cost(11, 17, 20) = 9$

$cost(q_1, q_2, q_3) + opt(q_4, q_5, m-1) \rightarrow cost(4, 9, 11) + opt(17, 20, 1) = 7 + 3 = (10)$

$\hookrightarrow cost(q_4, q_5) \rightarrow cost(17, 20) = 3$

$cost(q_1, q_2, q_3, q_4) + opt(q_5, m-1) \rightarrow cost(4, 9, 11, 17) + opt(20, 1) = 14 + 0 = 14$

$\hookrightarrow cost(q_5) \rightarrow cost(20) = 0$

$cost(q_0, q_1) + opt(q_2, q_3, q_4, q_5, m-1) \rightarrow cost(2, 4) + opt(9, 11, 17, 20, 2) = 2 + 5 = \star 7$ ✓

min

$cost(q_2) + opt(q_3, q_4, q_5, m-1) \rightarrow cost(9) + opt(11, 17, 20, 1) = 0 + 9 = 9$

$\hookrightarrow cost(q_3, q_4, q_5) \rightarrow cost(11, 17, 20) = 9$

$cost(q_2, q_3) + opt(q_4, q_5, m-1) \rightarrow cost(9, 11) + opt(17, 20, 1) = 2 + 3 = (5)$ ✓

$\hookrightarrow cost(q_4, q_5) \rightarrow cost(17, 20) = 3$

$cost(q_2, q_3, q_4) + opt(q_5, m-1) \rightarrow cost(9, 11, 17) + opt(20, 1) = 8 + 0 = 8$

$\hookrightarrow cost(q_5) \rightarrow cost(20) = 0$

$cost(q_0, q_1, q_2) + opt(q_3, q_4, q_5, m-1) \rightarrow cost(2, 4, 9) + opt(11, 17, 20, 2) = 7 + 3 = 10$

min

$cost(q_3) + opt(q_4, q_5, m-1) \rightarrow cost(11) + opt(17, 20, 1) = 0 + 3 = (3)$

$\hookrightarrow cost(q_4, q_5) \rightarrow cost(17, 20) = 3$

$cost(q_3, q_4) + opt(q_5, m-1) \rightarrow cost(17) + opt(20, 1) = 5 + 0 = 5$

$\hookrightarrow cost(q_5) \rightarrow cost(20) = 0$

$cost(q_0, q_1, q_2, q_3) + opt(q_4, q_5, m-1) \rightarrow cost(2, 4, 9, 11) + opt(17, 20, 2) = 14 + 0 = 14$

$cost(q_4) + opt(q_5, m-1) \rightarrow cost(17) + opt(20, 1) = 0 + 0 = (0)$

$\hookrightarrow cost(q_5) \rightarrow cost(20) = 0$

$cost(q_0, q_1, q_2, q_3, q_4) + opt(q_5, m-1) \rightarrow cost(2, 4, 9, 11, 17) + opt(20, 2) = 22 + 0 = 22$

$cost(q_5) \rightarrow cost(20) = (0)$