

$$f_0(x_0=1) = 0$$

$$f_i(x_i) = \min_{\substack{\text{all feasible} \\ (x_{i-1}, x_i) \text{ nodes}}} \{ d(x_{i-1}, x_i) + f_{i-1}(x_{i-1}) \} \quad i=1, 2, 3$$

stage 1

x_0	$d(x_0, x_1) + f_0(x_0)$			Optimum Solution	
	$x_1=2$	$x_1=3$	$x_1=4$	$f_1(x_1)$	x_1^*
1	7	8	5	5	4

stage 2

x_1	$d(x_1, x_2) + f_1(x_1)$		Optimum Solution	
	$x_2=5$	$x_2=6$	$f_2(x_2)$	x_2^*
2	$12 + 7 = 19$	—	19	5
3	$8 + 8 = 16$	$9 + 8 = 17$	16	5
4	$7 + 5 = 12$	$13 + 5 = 18$	12	5

stage 3

x_2	$d(x_2, x_3) + f_2(x_2)$		Optimum Solution	
	$x_3=7$		$f_3(x_3)$	x_3^*
5	$9 + 12 = 21$		21	7
6	$6 + 17 = 23$		23	7

最短距離 21.

$7 \rightarrow 5 \rightarrow 4 \rightarrow 1$