Quiz5

2021年5月13日 8:58

(1) (a) opt[k] = min (opt(s) +c[s,k]),

S is the post that make the recurrence least.

(b) Since each opt[k] is a sum from previous opt(s) and c[s,k], then we just need to find which two value equals to 14 k=4 sequence.

we find it's equal opt(3) + c(3.4) -> 3-> 4 op+(5) = opt(2) + c(3.5) -> 2->3 opt(1) = c(3.2) -> 1->2

7 has generate 1-52->3-34

K 1 2 3 4

opt 0 15 25 27

segur - 1,2 1,2,5 1,2,3,4

2, (9)		0		2	13	
-	D	L	D	0	D	orange is initial value.
	1	1_	1	0	0	(
	2	1 1	7	\ \{\rac{1}{2}\}	Ð	fill the column from top to bottom
	3	1 _	3	3	1	
	4	1	14K	6	4	
	1	1	15	10	(5)	
			((` `	
each row filled from right to left						

each row filled from right to left

(a)
$$C_i = C_{i+1} + C_i$$

First fill rows, then columns.

(top to botton) (right to logic

$$(5,0)$$

$$(5,0)$$

$$(5,0)$$

$$(5,0)$$

$$(1,0)$$

$$(5,1)$$

$$(2,1) < 3(1,1) < 3(1,1) < 3(0,0)$$

$$(4,1)$$

$$(5,2) < 3(5,1)$$

$$(5,1)$$

$$(5,1)$$

$$\begin{aligned} lo &= 44b = (1+5) + (2+6) = (1+(1+2)) + (1+2) + (1+2) \\ &= (1+(1+2+1)) + (1+(1+1)) \end{aligned}$$

Write the path in table.

(3) (a)
$$V(2,9) = max (V(1,9), V2+ V(1,9-4)) = 5+3=8$$

Therefore select from (1.5)

Need (2.4), (1.4)

$$(4) V_{(4,9)} = max(V_{(3,9)}, v_4 + V_{(3,9-6)}) = 13$$
remaily same

Need (3,9), (2,4), (1,4)

(d)
$$V_{(5,9)} = \max(V(4,9), vs+V(4,2-)) = 13$$

remaining some

(v) V(5,9) = max(V(4,1), vs+V(4,2-)) = 1)remaining some

Noed (4.9), (3.9), (2,41, (1,4)

(9) object band 1 (4) 3+5=8

(4) (a) (2,4) $M(i,j) = \min(M(i,k) + M(kH,j) + pirpkpi)$ iskej $M(3,4) = \min_{m \in \mathbb{Z}} M(1,3) + m(4,4+3) + \log_{2230} 2230$ M(1,2) + m(1,4+3) + m(1,4+3)

1,5) $m(1,4) = m_0 S m(1,0) + m(2,4) + 12x5x x0 = 2250+1200=2,450$ m(1,2) + m(5,4) + 12x25x x0 = 1500 + 5000 = 12500m(1,5) + m(4,4) + 12x10xx0 = 1800 + 2400 = 4200

M (1.4) = 3600.

(C) A, ((A, A,) A+)