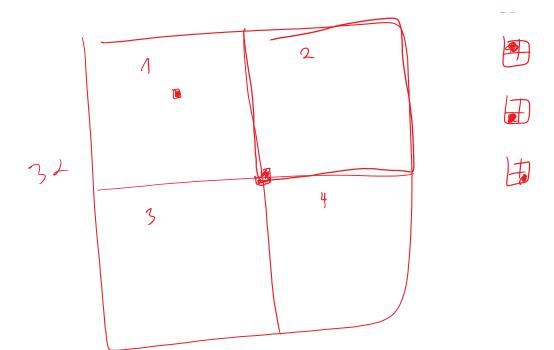
Downposition Thursday, February 23, 2017 9:46 AM Trominoes tiling Impol: 2 × 2 2 grid/square with I empty cell.]< Output: a tiling of the square using trominous. 2 x 2 15% K=2 2272 - around the empty all _ corners 8 18 Deonyon

2k-1 x 2 Square

72

(1)



substitution

Tuesday, February 28, 2017 10:49 AM

$$T(n) = c \cdot n + 2T(n/2)$$
 $T(1) = c$

$$T(n) = c \cdot n + 2 T(n/2)$$

$$T(n) = c \cdot n + 2 \cdot \left[c \cdot \frac{n}{2} + 2 \cdot T(\frac{n}{2}) \right]$$

$$T(n) = c \cdot n + 2 \cdot \left[c \cdot \frac{n}{2} + 2 \cdot T(\frac{n}{2}) \right]$$

$$T(n) = c \cdot n + c \cdot n + 2^{2} T(\frac{n}{2}) = 2cn + 2 \cdot T(\frac{n}{2})$$

$$T(n) = 2cn + 2^{2} \cdot \left[c \cdot \frac{n}{2} + 2T(\frac{n}{2}) \right]$$

$$T(n) = 3cn + 2^{3} \cdot \left[c \cdot \frac{n}{2} + 2T(\frac{n}{2}) \right]$$

$$T(n) = 3cn + 2^{3} \cdot \left[c \cdot \frac{n}{2} + 2T(\frac{n}{2}) \right]$$

$$T(n) = 3cn + 2^{3} \cdot \left[c \cdot \frac{n}{2} + 2T(\frac{n}{2}) \right]$$

$$T(n) = 4cn + 2^{4} \cdot T(\frac{n}{2})$$

$$T(n) = 4cn + 2^{4} \cdot T(\frac{n}{2})$$

$$T(n) = k(n + 2^{k} \cdot T(\frac{n}{2}))$$

$$V = 4cn + 2^{k} \cdot T(\frac{n}{2})$$

$$V = 4cn + 2^{k} \cdot T(\frac{n}{2})$$

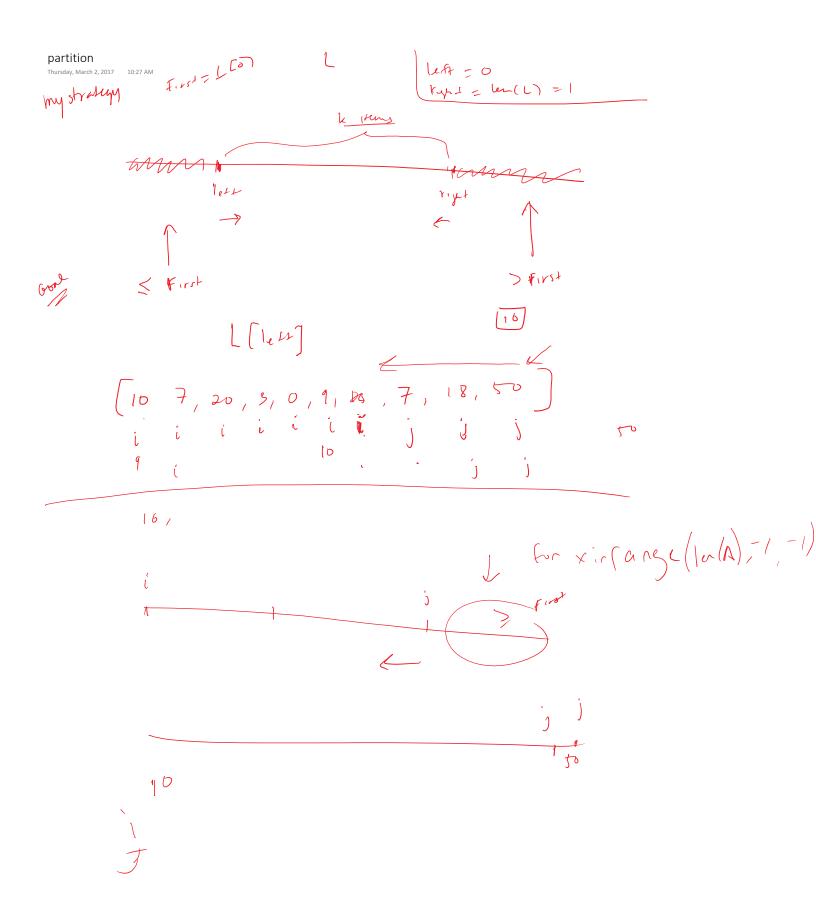
$$V = 4cn + 2^{k} \cdot T(\frac{n}{2})$$

$$T(n) = k(n + 2^{k} \cdot T(\frac{n}{2}))$$

$$T(n) = k(n + 2^{k} \cdot T(\frac{$$

Comp4030-hand-written-notes Page 3

= c. n lyn + c.h



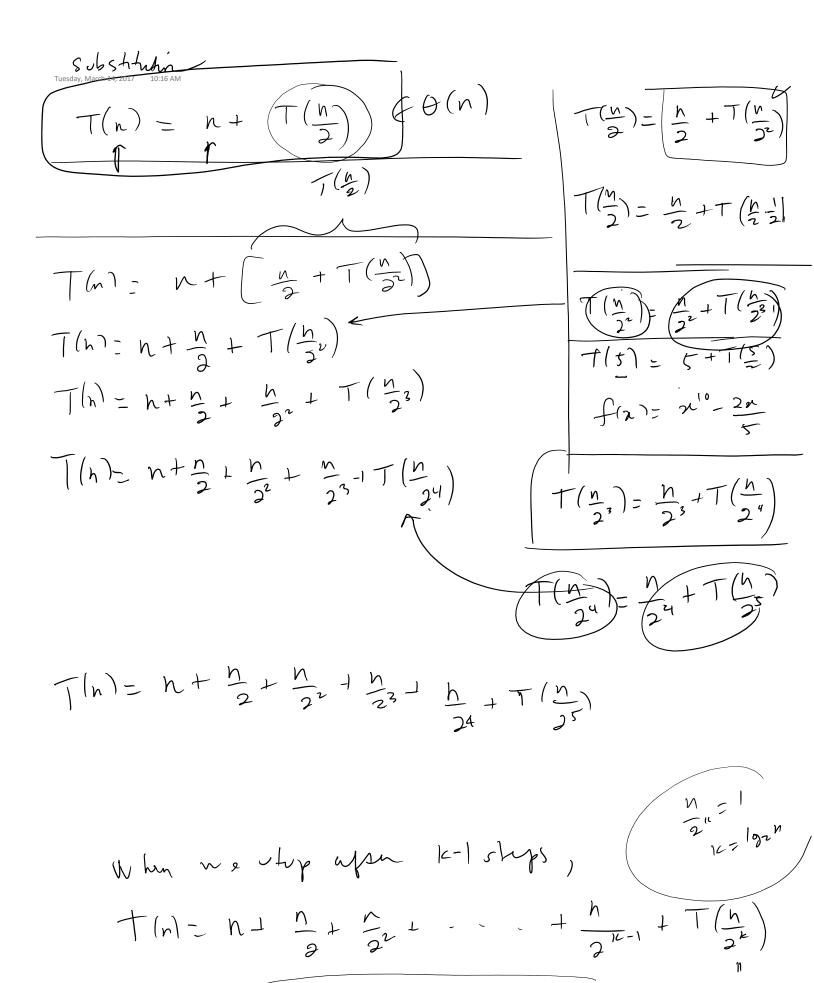
Subshtum
Tuesday, March 14, 2017 9:49 AM 丁(1) = $|\gamma(n)| = n + 2 \left| \frac{n}{2} + 27 \left(\frac{n}{2} \right) \right|$ $t(n) = n + n + 2^{r} \left(\frac{n}{2^{2}} + 2T \left(\frac{n}{2^{3}} \right) \right)$ $T(n/2) = \frac{h}{2^3} + 2T($ Tn= n+n+ 23(1/1/23) $T(n) = n + h + h + 2^3 \left(\frac{n}{2^3} + 2T(\frac{n}{2^3}) \right)$ T(n) = h + h + h + 2 + T(n/24)C O (nlyn) + h.T(1) N, K + 2 - 7 (1)

$$|+2+3+...+ m = \frac{m(m+1)}{2}$$

$$+2+3+4+5 = \frac{5.6}{2} = 15$$

Anthretic sum

$$\frac{1+3+(\frac{3}{4})^{3}+(\frac{3}{4})^{3}+(\frac{3}{4})^{3}+(\frac{3}{4})^{10}-(\frac{3}{4})^{10}-(\frac{3}{4})^{10}-(\frac{3}{4})^{10}}{\frac{3}{4}-1}$$



$$T(n) = c \cdot h + c, \quad \mathcal{E}(n)$$

Suh Shhhhh

Comp4030-hand-written-notes Page 10

$$T(n) = n(n-1) + h^{2} = 2n^{2} - n + \theta(h^{2})$$

$$4^{(6)} h^{2} = (2^{2})^{(9)} h^{2}$$

$$= (2^{(10)} h^{2})^{(2)}$$

$$T(n) = N + 3T(\frac{n}{2})$$
 $T(n) = N^2 + 2T(\frac{n}{2})$

Substitution

$$T(n) = n + T(n-1)$$

$$T(n) = n + (n-1) + (n-2) + T(n-3)$$

$$T(n) = n + (n-1) + (n-2) + T(n-3)$$

$$T(n) = n + (n-1) + (n-2) + T(n-3)$$

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$$T(n) = n + (n-1) + (n-2) + (n-2) + T(n-3)$$

$$T(n) = n + (n-1) + (n-2) + (n-$$