















Special class

$$\frac{1}{1} - \frac{1}{2} = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{1}$$

$$T(n) = 2^{n} + \alpha \pi n$$

$$= 2^{n} + \alpha \pi n$$

$$= 2^{n} + n \pi a$$

$$= 2^{$$

$$2^{\log n} + n = \log n$$

$$= 2^{\log n} + 2^{\log n} \times \log(2^{\log n})$$

$$= 2^{\log n} + 2^{\log n} \times \log(2^{\log n})$$

$$= 2^{\log n} + 2^{\log n} \times \log(2^{\log n})$$

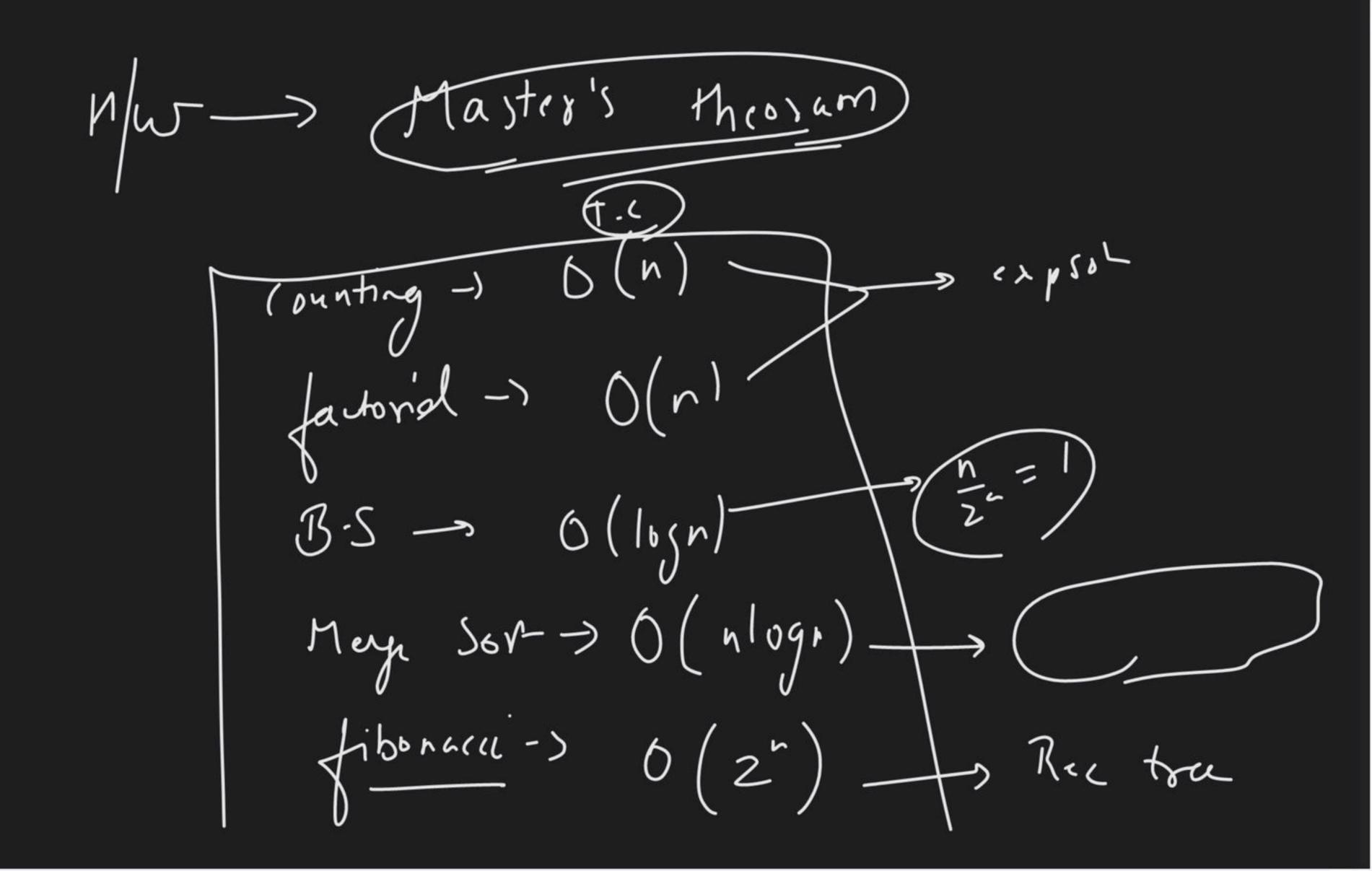
$$= 2^{\log n} + 2^{\log n} \times \log(2^{\log n})$$

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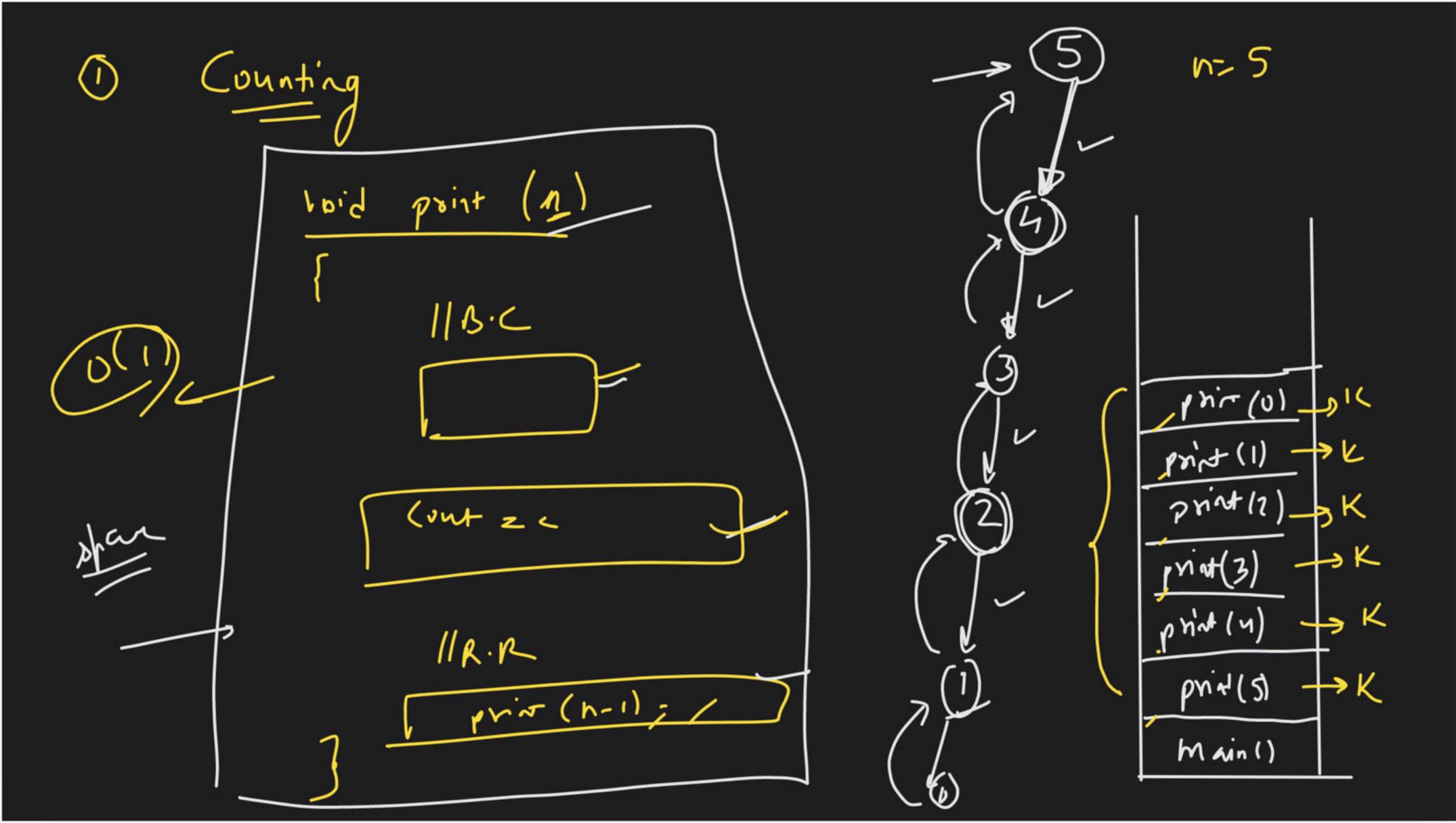
$$= 2^{\log n} + 2^{\log n} \times \log(2^{\log n})$$

\_\_\_\_\_\_n(1.jn +1)





(omblexity)



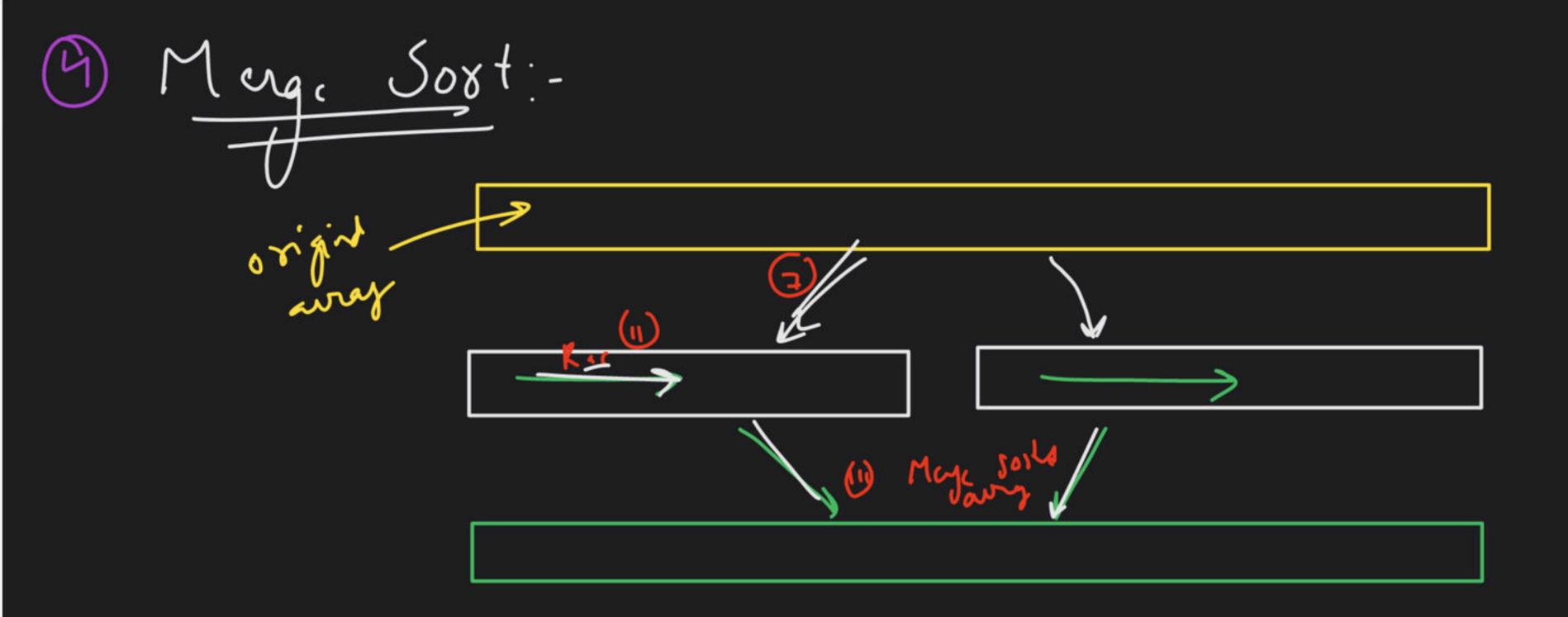
$$5.(-)$$
  $nK + K$ 

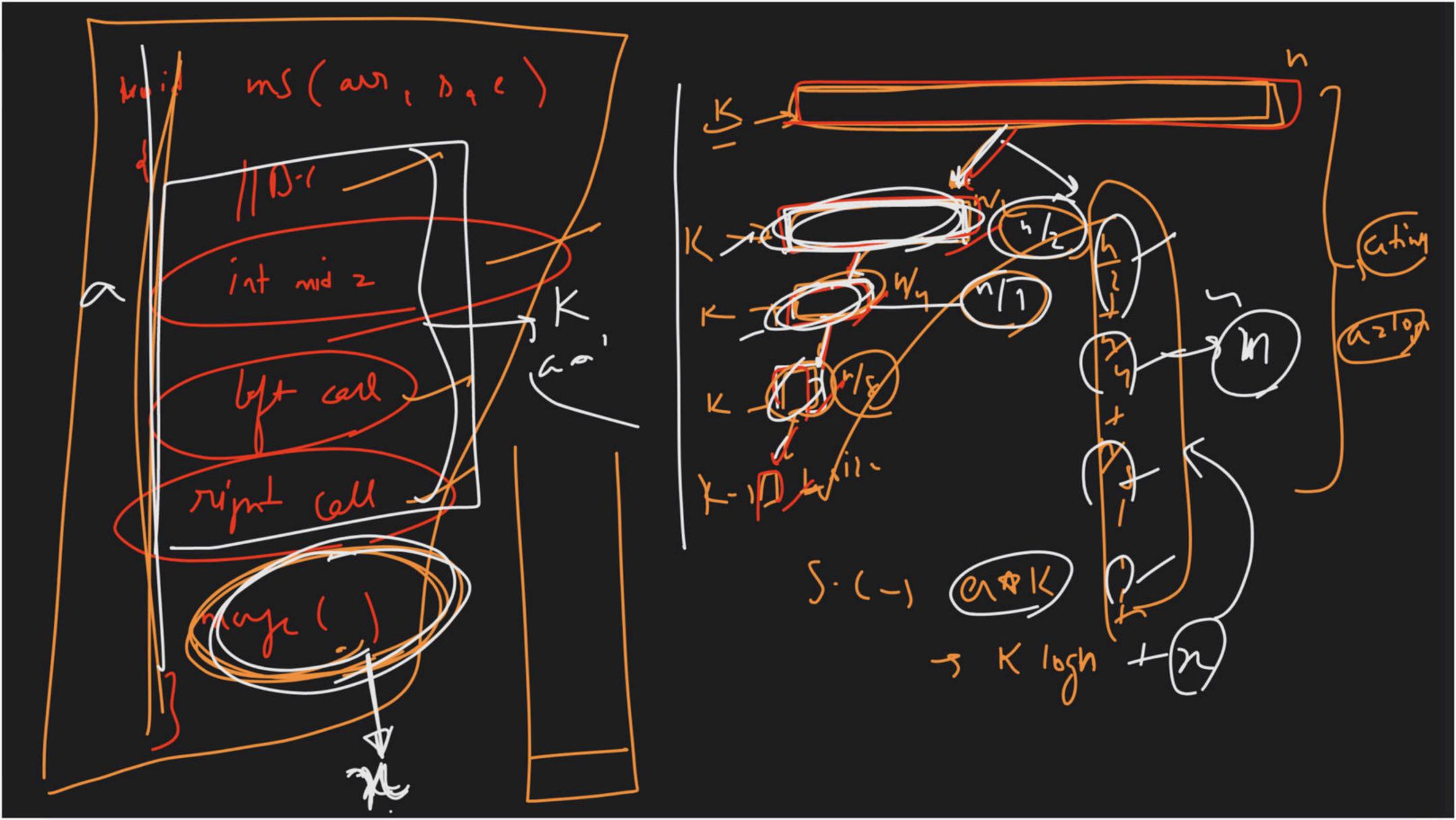
$$NK + K$$

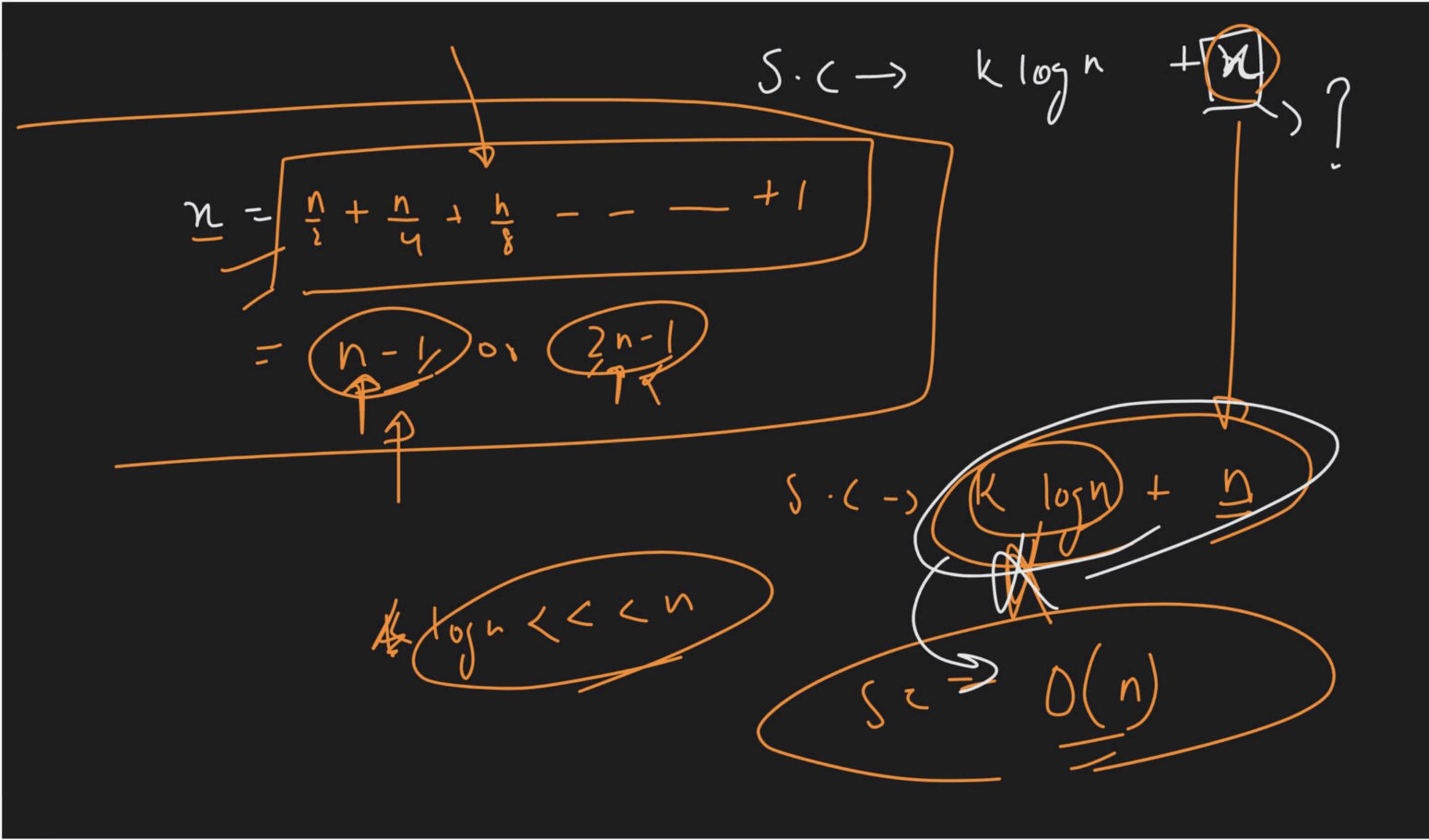
$$NK$$

Lactorial int fact (int r) Da K 40/(3/ if (~==0 ||n==1) (01/44 na fact (1-1)main(

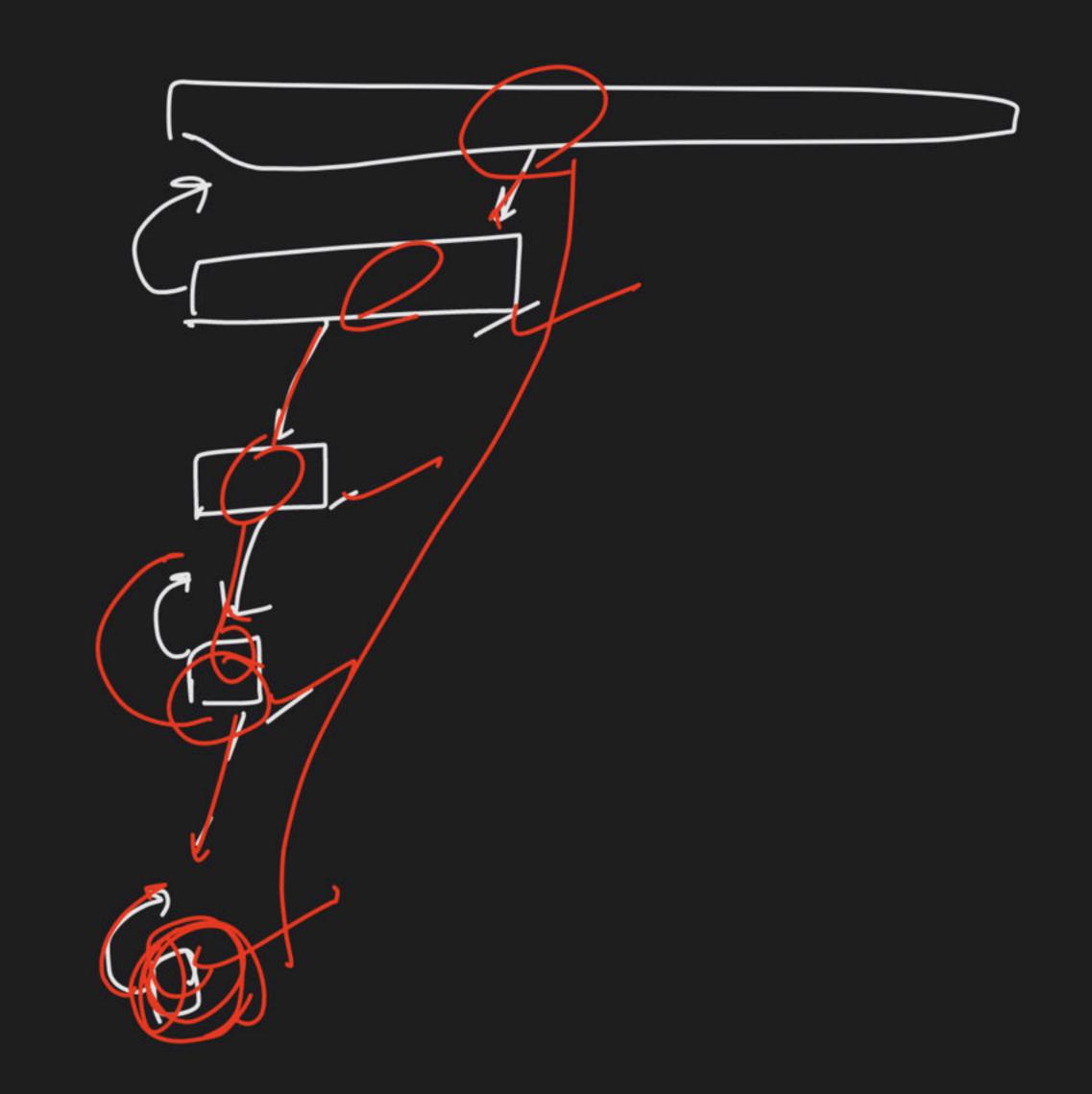
binscarch (asr, s, z, tanger) 600 (a) Dinary Scarch if (1) > c false, ( binson (n rize) -> K int mil 2 (2+c)/2; if (an [mid) = = tayit) rom tre; birstend (2 size)—K 1/ (av (mi)) > tay(+) binsont (haire) orden binsanh (m. s, mid-1, hyd). rohn binscarch (arr, mid+1.c.+ya). bin sout (1size) JK S-(-) (NA) - X+(m) S-(-) O(10/-)

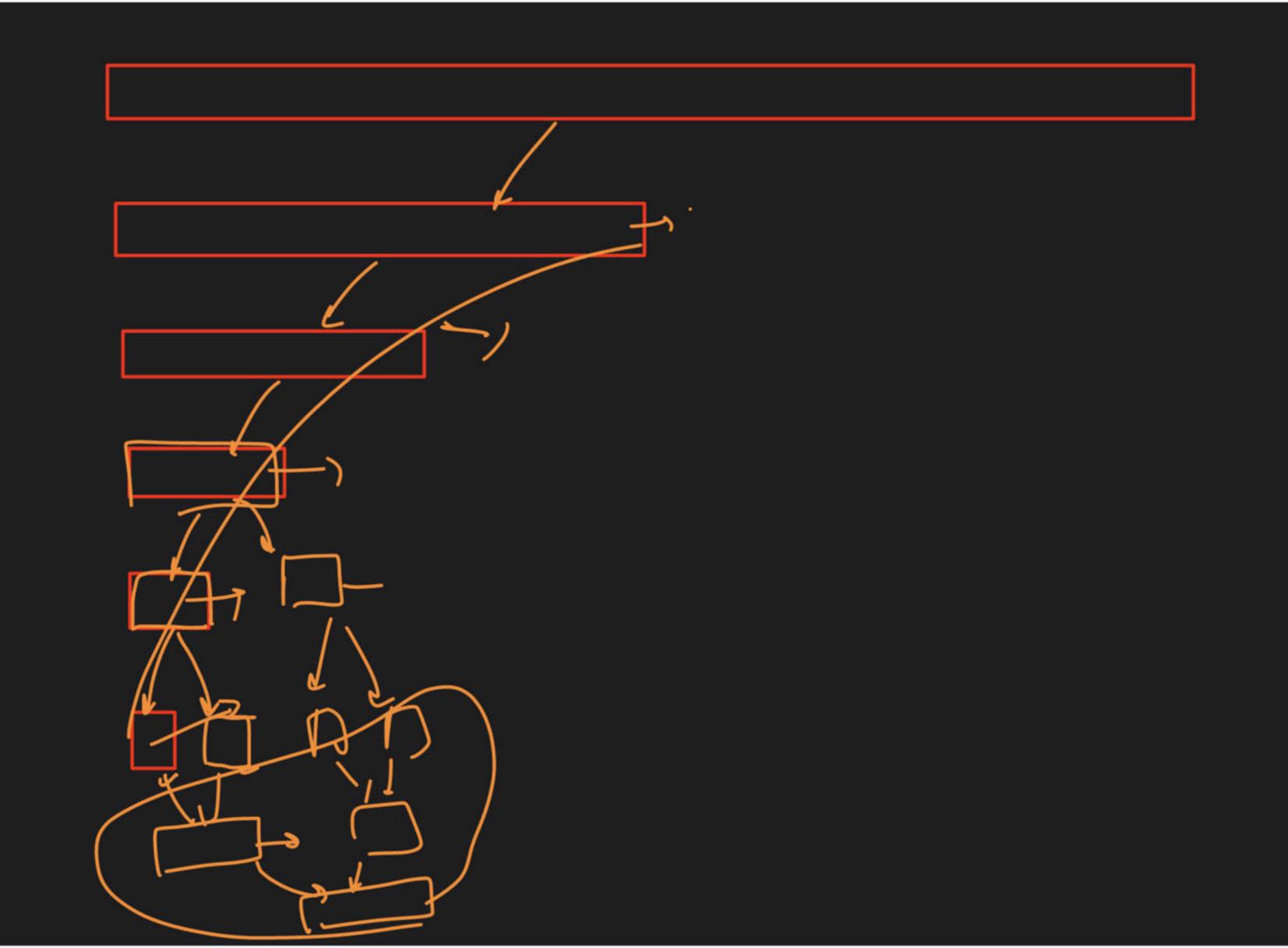




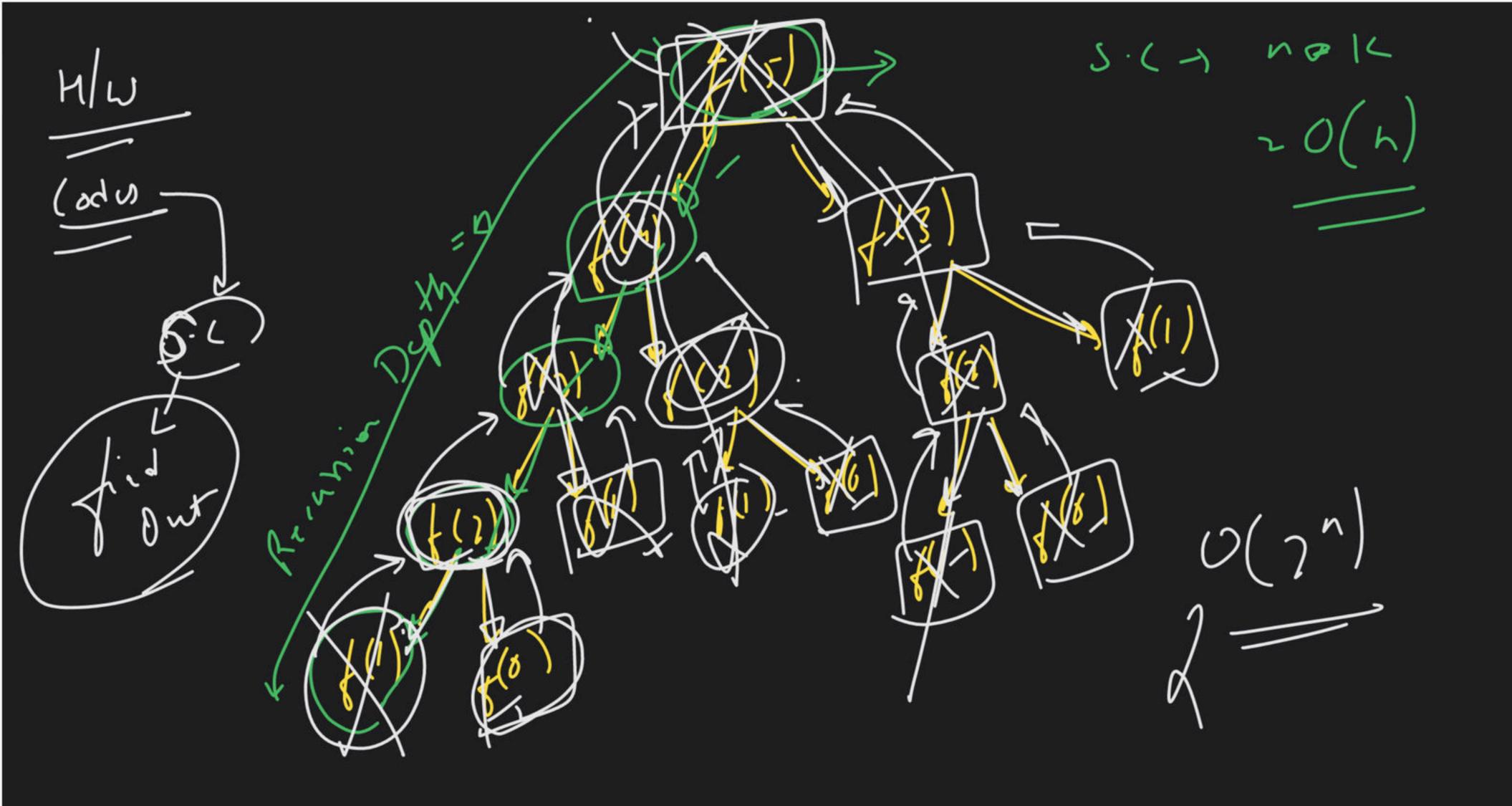


$$(n)$$
  $(n)$   $(10)$   $(1$ 





Fib Scoin fis (in+ n) notum  $f^{ih}(n-1)+f(n-2)$ 





Whnting

exponentia,





