

3AAA4A 5,
$$632$$

for $i=1$; $i < n$; $i * 2$:

for j in range (i^3) :

print ("heh")

$$\sum_{i=0}^{\lceil \log_2 n \rceil} \sum_{j=0}^{\binom{2i}^3} 1 = \sum_{i=0}^{\lceil \log_2 n \rceil} (2^{i})^3 = \underbrace{1^3 + 2^3 + 4^3 + ... + (\frac{n}{4})^3 + (\frac{n}{2})^3 + n^3}_{i=0} = \underbrace{n^3 \left(1 + \frac{1}{8} + \frac{1}{8^2} +\right)}_{i=0}$$

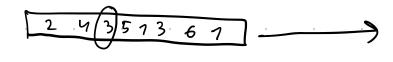
pivot Quick_sort (array, 1, r):

PROBERKA HO OKOHY. PEKYPONN

P = OVV [ind] ind = partition (array, 1, r, b) quick_sort(array, 1, ind) quick - sorf (array, ind+1, r) MOXHO BUIDUPATO Pivot pivot. (OTOPHBIR DEMENT) C144. OB1 A30M TPUMED C "TRAOXUM BXOJOM" log_u | III III PELIENNE MPOBIEMOI: $()(n^2)$ BOIDUR MEDUAHY BKAY. OTTOPHOTO

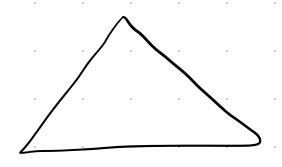
C BUTOPOM OTMEQUAND

partition:



$$T(n) \in T(n-1) + ch \leq \ldots$$

$$T(n) = T(n-1) + cn = O(n^2)$$

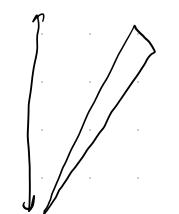


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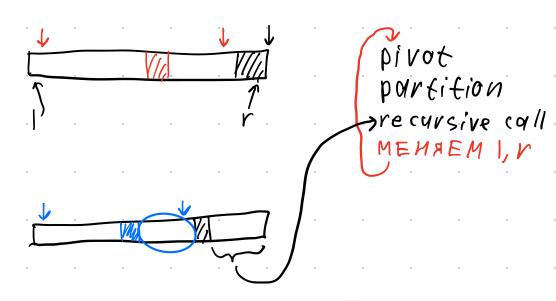
N-1

quick-sort









К-Й ПОРЯДКОВОЙ CTATUCTUKU

MONCK MEANAMON 3A NUM. BPEMA

d(K) - K-A MOR. CT.

0x - 31-T

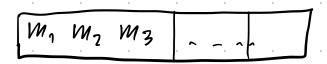
 $\alpha_{(1)} = \min(\alpha)$

 $\alpha_{(n)} = max(a)$

Q(字) - MEAUAHA

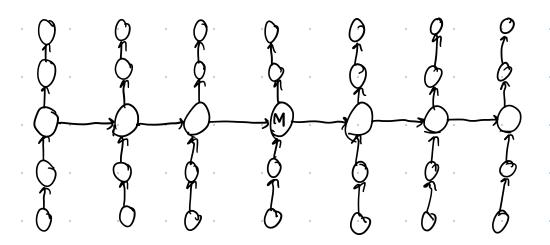
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CN



 \widetilde{M}_1 \widetilde{M}_2 . \widetilde{M}_2

M

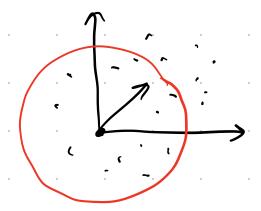


O(K)

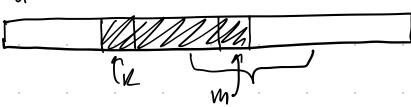
K

K-A MOP. CT. - YEPHBIA ALL,UK

$$\begin{cases} (x_i, y_i, z_i) \\ x_i \\ x_i^2 + y_i^2 + z_i^2 \end{cases}$$

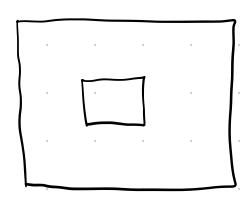


$$\sum_{i=K}^{m} a_{(i)}$$

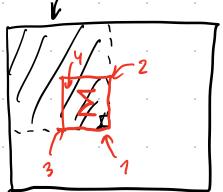


K, M B(m-K)

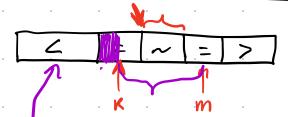
$$I = \left[\alpha_1 \middle| \alpha_1 + \alpha_2 \middle| \dots \right]$$



$$I[i,j] = \sum_{p=1}^{i} \sum_{q=1}^{j} \alpha[p,q]$$



$$\leq = 1 - 2 - 3 + 4$$



$$= \alpha_{(\kappa)}, = \alpha_{(m)}, \alpha_{(m)} \leq$$