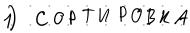
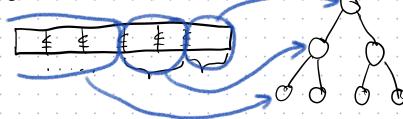




KAK MOCTPOUT B KYYY?





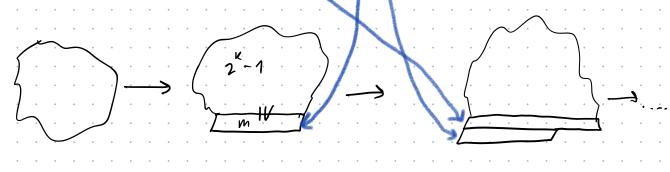
O(nlogn)

$$\alpha_{(2^{k-1}-1)} \geq \geq$$

$$\alpha = \sum_{k=1}^{k} \frac{1}{2^{k}-1} + m$$

$$\alpha_{(2^{k}-1)} \geq \geq$$

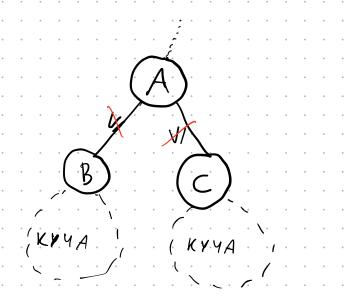
$$\alpha = \sum_{k=1}^{k} \frac{1}{2^{k}-1} + m$$

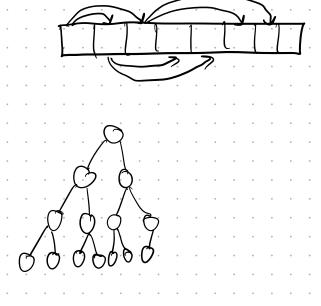


$$O\left(n+n+\frac{n}{2}+\frac{n}{4}+\dots\right)$$

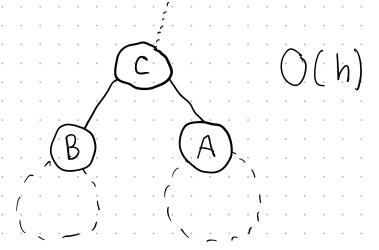
$$\bigcirc (n)$$

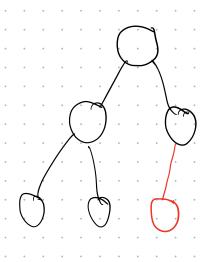
3) "OKYYUBAHUE" YKE ZANONH. MACCUBA heapify

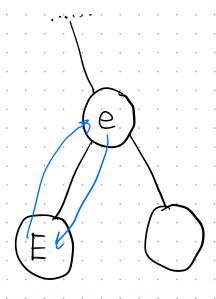




БЕЗ ОГР. ОБЩ. C>B>A







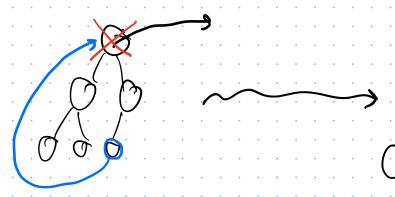
3A CKONDRO PABOTAET DOCTP.KVUY heapify-em?

$$\left(\frac{1}{2}\right)^{n} \left(\frac{N}{2^{n}} \cdot i\right)^{n}$$

$$\sum_{i=1}^{\log_2 n} \frac{n}{2^i} \cdot i = n \sum_{i=1}^{\log_2 n} \frac{i}{2^i} = O(n)$$

$$\sum_{i=1}^{\log_2 n} \frac{1}{2^i} = \sum_{i=1}^{\log_2 n} i \ 2^i = \sum_{i=1}^{\log_2 n$$

MUPAMUDANOHAR COPT. (COPT. KY YEV):





- 1) extract\_max
- 2) MOCA. FREM. HA BEPWUHY
- 3) heapify