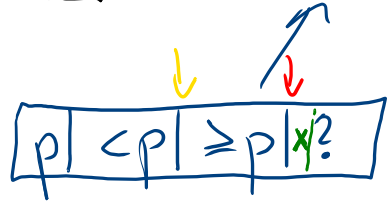
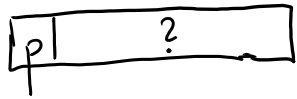


QS PARTIT O(1), CAS O(N)
 ALG?

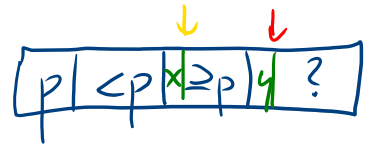
PARTITION



$x < p$

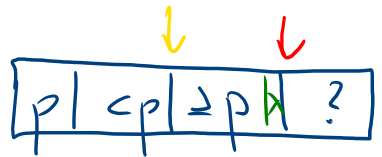


$x \geq p$

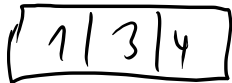


STABILITA : X

PŽIROKAVOSI : X



MERGESORT



+



1 2 3 4 5 8

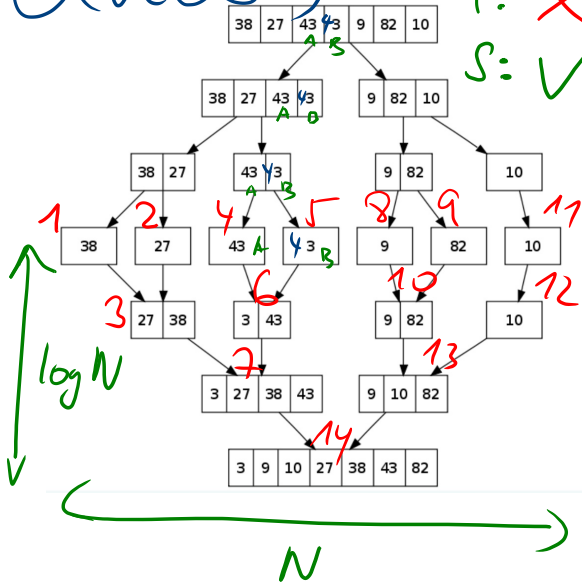
MERGE

$O(N)$

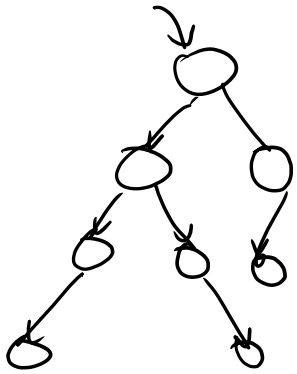
$O(N \log N)$

P: X

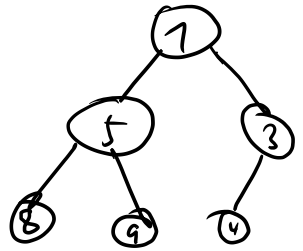
S: V

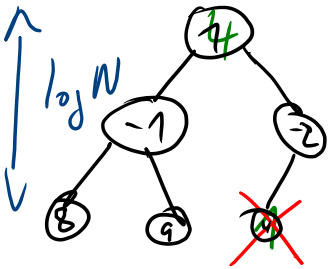


Бинарни стром

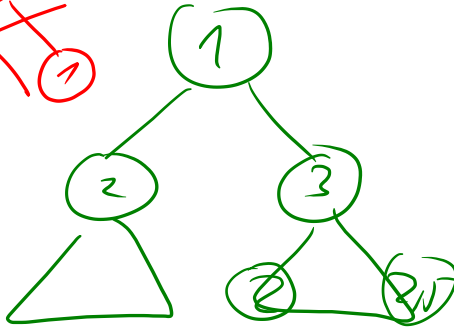
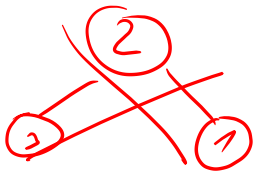
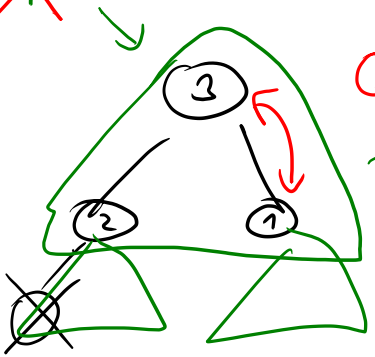


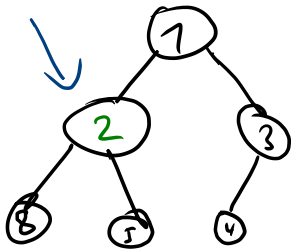
Бинарни халда
(минимал)





PĒIDAŅĀI $O(\log N)$
 OŅĒBRĀŅĀI MIN. $O(\log N)$



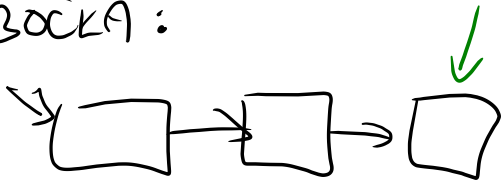


SNÍŽENÍ KLÍČE $O(\log n)$

ODSTRANĚNÍ LIB. PRVKU

= SNÍŽENÍ KLÍČE (\rightarrow)
+ ODSTRANĚNÍ MIN.

ODBOČKA :

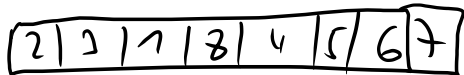


PŘIDÁNÍ PRVKU NA KONEC

→ $O(N)$

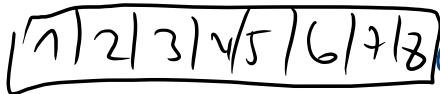
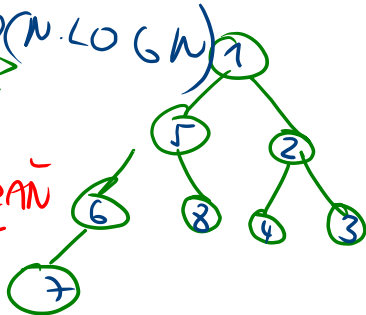
→ $O(1)$

HEAPSORT

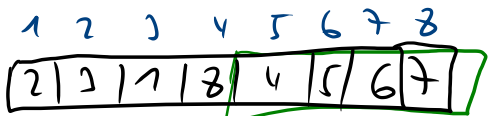


$O(N \cdot \log N)$
HEAP

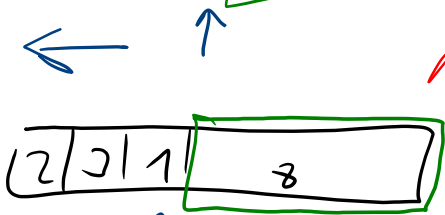
$N \times$ ODSIRAN
MIN.



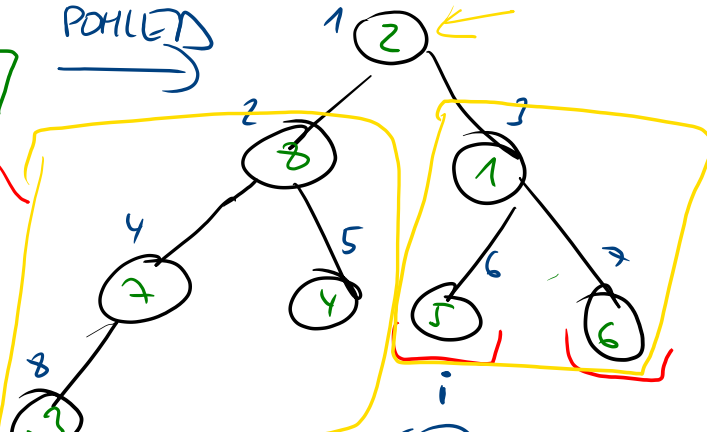
$O(N \cdot \log N)$



POHLEDA

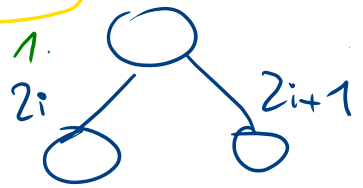


HALDA



$O(N)$
 MITROBEM' HALDY

$$\frac{n}{2} \cdot 0 + \frac{n}{4} \cdot 1 + \frac{n}{8} \cdot 2 + \dots + 1$$



$$\frac{h}{2} \cdot 0 + \frac{h}{4} \cdot 1 + \frac{h}{8} \cdot 2 + \dots + 1 \cdot \log N \in \mathcal{O}(N)$$

$$= \sum_{h=0}^{\log N} \frac{N}{2^{h+1}} \cdot h$$