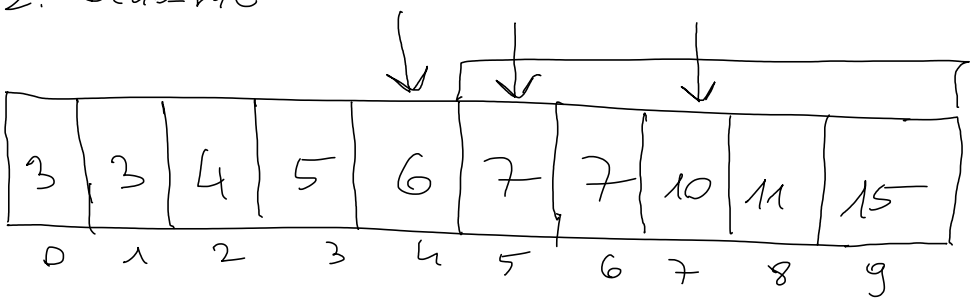
sobota, 26 marca 2022 08:18

wyszuk. binarne



$\leq 6 < 7$

$7 < 10$

100

zapytania x – podaj indeks na którym jest x w tablicy

najmniejszy

$x = 7$

$O(n)$

$O(\frac{1}{2} \cdot n) = O(n)$

$O(\log_2 n)$

$O(\log_8 n)$

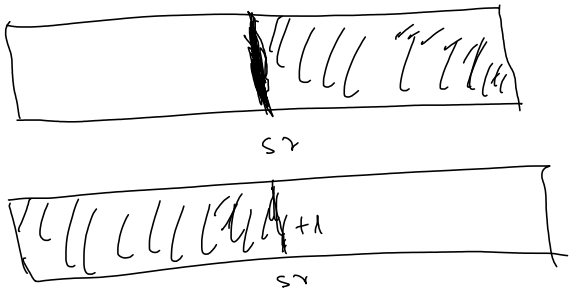
$1 \to 2 \to 4 \to 8 \to 16$

$2^x \geq n \;/ \log_2$

$x = \lceil \log_2 n \rceil$

$O(2n+5) = O(n)$

$O(n^2+3n+7) = O(n^3)$



$\cdot 10^8$

$100 : 7$

$1000 \cdot 10$

$2^{10} = 1024$

$10^9 : 31$

$10^{18} : 60$