1 2 3 4 5 6 7 7 6 isid 5 4 3 2 1 67 5 9 ... 1.2.3  $1+2+3+...+N=\frac{N+1}{2}\cdot N$ ARR 2315671

1231567,765

[2m-1]

4234 12345678

 $\frac{1}{1} = \frac{1}{2} = \frac{1}$ ztworekuvenji vninas. Tw- Olnhyn

7813231 M-1 4321387 3321487

5a & 17

72345

321857

MAX

3/1/5

for i= 2 · i > 0 · i--)

hesperdonn(i)

[8, 5, 7, 2, 3, 1]

E 01/ 7 h)-0(wgn) 2\* 2. D(won) = D(wwy)  $\frac{2^{k} \cdot 0 \cdot h + 2^{k} \cdot 0 \cdot h + 3 \cdot t}{2^{k} \cdot 0 \cdot h - k} = \frac{2^{k} \cdot 0 \cdot h + 3 \cdot t}{2^{k} \cdot 0 \cdot h - k}$ h= wg(n)

$$\frac{h}{\sum_{k=1}^{2}} \frac{2^{k}}{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k}) = O(n)$$

$$= O(n)$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k}) = O(n)$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k}) = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k}) = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

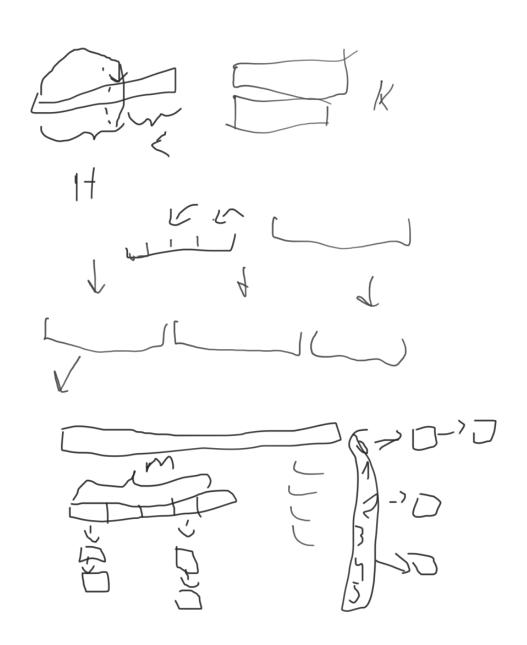
$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

$$= \sqrt{2^{k}} \cdot O(k) = 2^{k} \sum_{k=1}^{\infty} \frac{O(2^{k})}{2^{k}} = O(2^{k})$$

7'w) ~ O(n) 10+



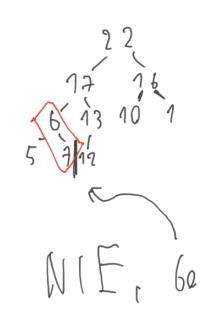
<u> </u>	BIAIN
	NAYN
b)	nlogn n <sup>2</sup>
C	n log n
4	$n$ $n^2$ $n^2$
2	n+m
- +	Me Weth M2

$$\begin{array}{c}
10 \\
R > \frac{1}{2} \\
\downarrow 2 \\
P > 2 \\
\downarrow + 1
\end{array}$$

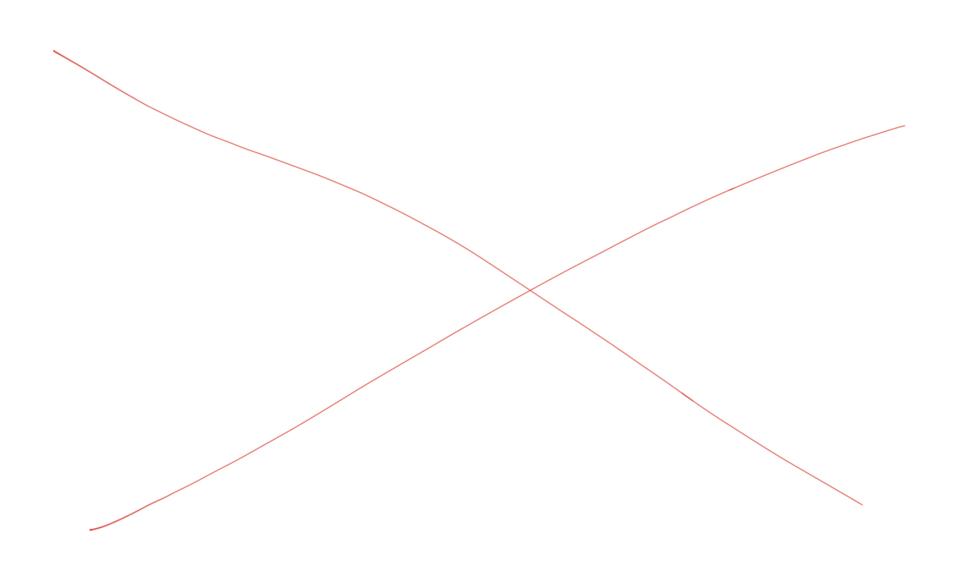
$$\begin{array}{c|c} 10 \\ \hline \\ R > \begin{bmatrix} i \\ 2 \end{bmatrix} \\ \hline \\ P > 2i + 1 \\ \hline \end{array}$$

$$\begin{array}{c|c} 12 > 4 \\ \hline \\ \hline \\ P > 2i + 1 \\ \hline \end{array}$$

$$\begin{array}{c|c} 1+1 \\ \hline \\ \hline \\ P > 2(i+1) \\ \hline \end{array}$$



9,27,6,19,14,10,14,3,6
6,9,19,22,10,14,11+
3,5
6,9,19,14,17,19,22,3,5



7,6,5 4,3,2,1 1,2,3,4,5,6,7

7,6,5,5,2,1

10h may 10