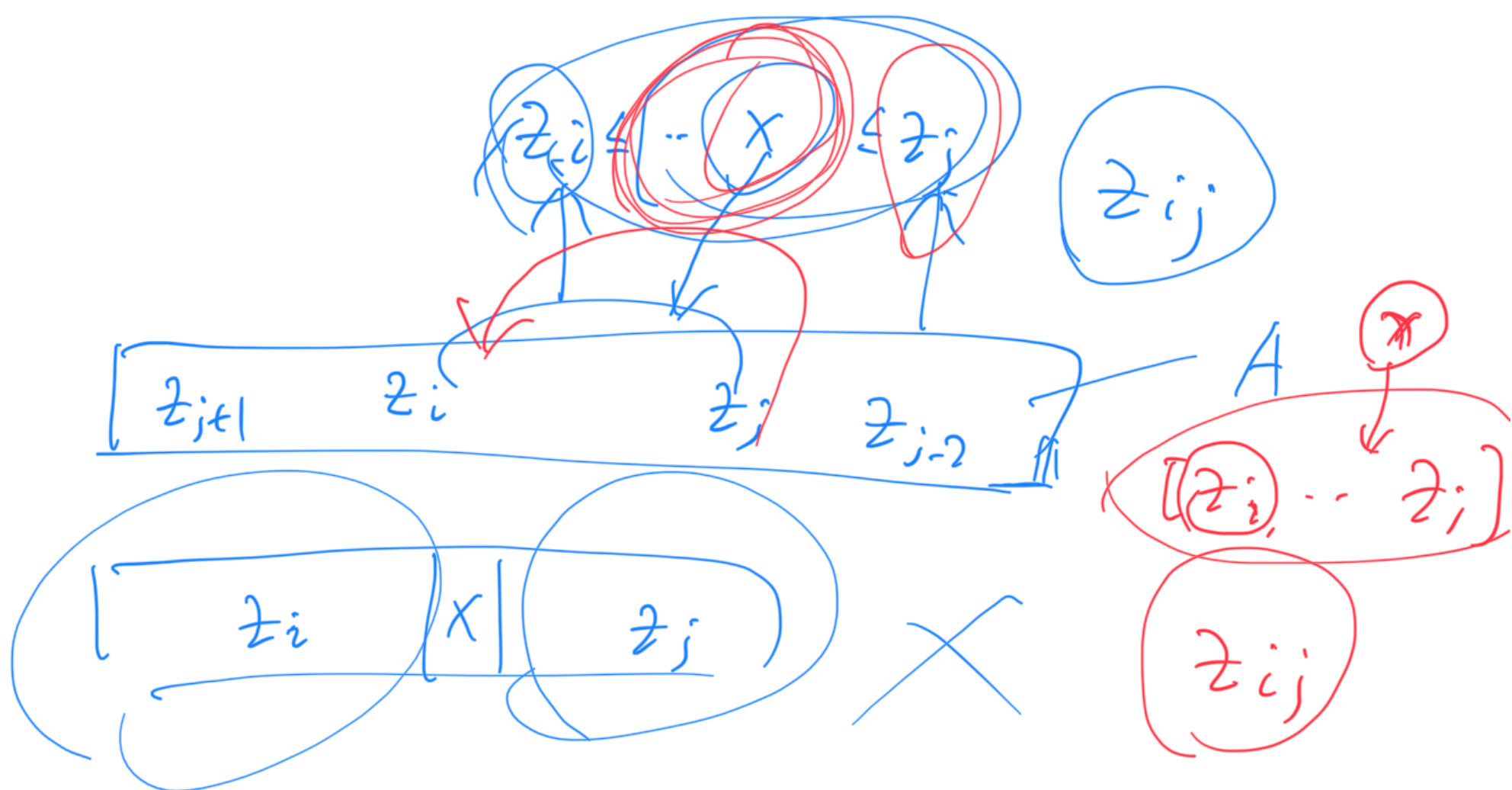


pivot = 5



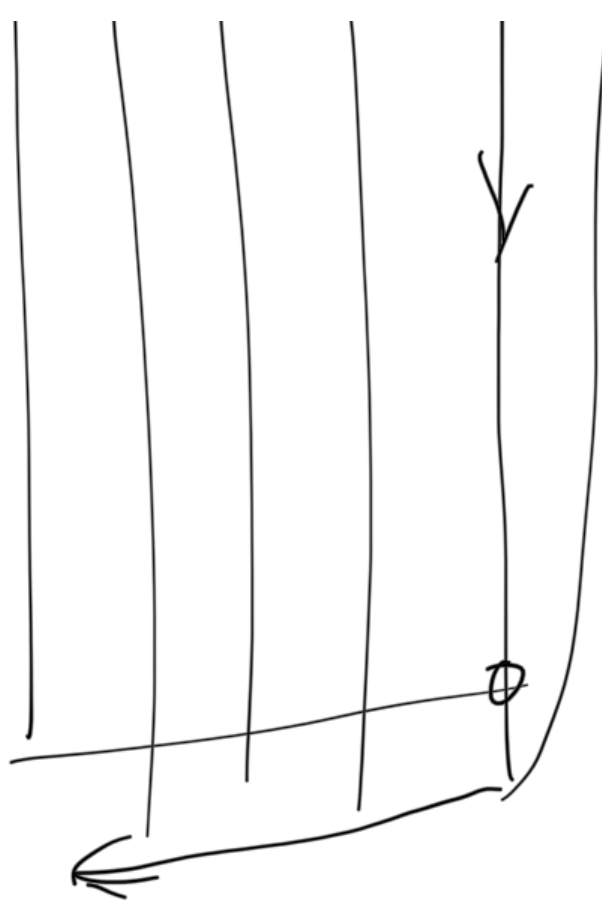
$$\begin{array}{c|c} 2 & 4 \\ \hline 1 & 8 \end{array} \rightarrow \begin{array}{c|c} 18 & \\ \hline 2 & 4 \end{array} \rightarrow \begin{array}{c} 24 \\ 18 \end{array}$$

$$\rightarrow \begin{array}{c|c} 2 & 4 \\ \hline 1 & 8 \end{array} \rightarrow \begin{array}{c|c} 18 & \\ \hline 2 & 4 \end{array}$$



$$r = O(n)$$

$$r = O(n^d)$$



$$0 \sim k-1$$

$$k = O(n)$$

$$\Theta(n+k)$$

$$\theta(\cancel{d(n+k)}) = \theta(n)$$

