Closest match

☐ Take matrix T_x and sort the values ~~according t~~ numerically:

$$T_x = \begin{bmatrix} 30 & 30 & - & - & - & 30 \\ 30 & 27 & 26 & 21 & 19 & - & 30 \\ 60 & 28 & 25 & 19 & 18 & - & 30 \\ & & & & \boxed{\text{?}} & & \\ & & & & 4 & & \end{bmatrix}$$

Vector with sorted values and remember row and column indices

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$$y\emptyset = \begin{bmatrix} 16 & \rightarrow (1,3)^k \\ 17 & (5,13) \\ 18 & (3,5) \\ \vdots & \vdots \\ 30 & \vdots \end{bmatrix}$$

$$T_i = \begin{bmatrix} 30 & - & - & 30 \\ \vdots & & & \vdots \\ & & \boxed{} & \end{bmatrix} \Rightarrow \text{sort the same way as } T_x$$

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$\Rightarrow$ creaks vector X

$$X = \begin{bmatrix} (T_i)^k \\ (T_i)_{5,13} \\ \vdots \end{bmatrix}$$