## 1 | diagonal of a matrix

def

The diagonal of an 
$$n$$
-by- $n$  matrix is all the entries of the form  $a_{i,i}$  for  $0 < i \le n \setminus \begin{bmatrix} x & & \\ & \ddots & \\ & & x \end{pmatrix} \setminus \begin{bmatrix} x & & \\ & & \ddots & \\ & & & x \end{bmatrix}$ 

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