

Goal: Put matrix in REF or RREF

$$\begin{pmatrix} \times & * & & & \\ 0 & \times & & & \\ 0 & 0 & \times & & \\ 0 & 0 & 0 & \times & \\ 0 & 0 & 0 & 0 & \times \end{pmatrix}$$

REF

$$\begin{pmatrix} 1 & 0 & 0 & 0 & \times \\ 0 & 1 & 0 & 0 & \times \\ 0 & 0 & 1 & 0 & \times \\ 0 & 0 & 0 & 1 & \times \\ 0 & 0 & 0 & 0 & - \end{pmatrix}$$

RREF

It should satisfy all REF condition

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2) Rescale the rows so that pivots are all equal to one.

3) Above each pivot it has to be zero.

a) Some of the row have nothing = but zero. In that case that row has to be last row

b) Every other row has non zero entry.

c) First non zero entry is called pivot.

d) Each pivot should be right of previous pivot.