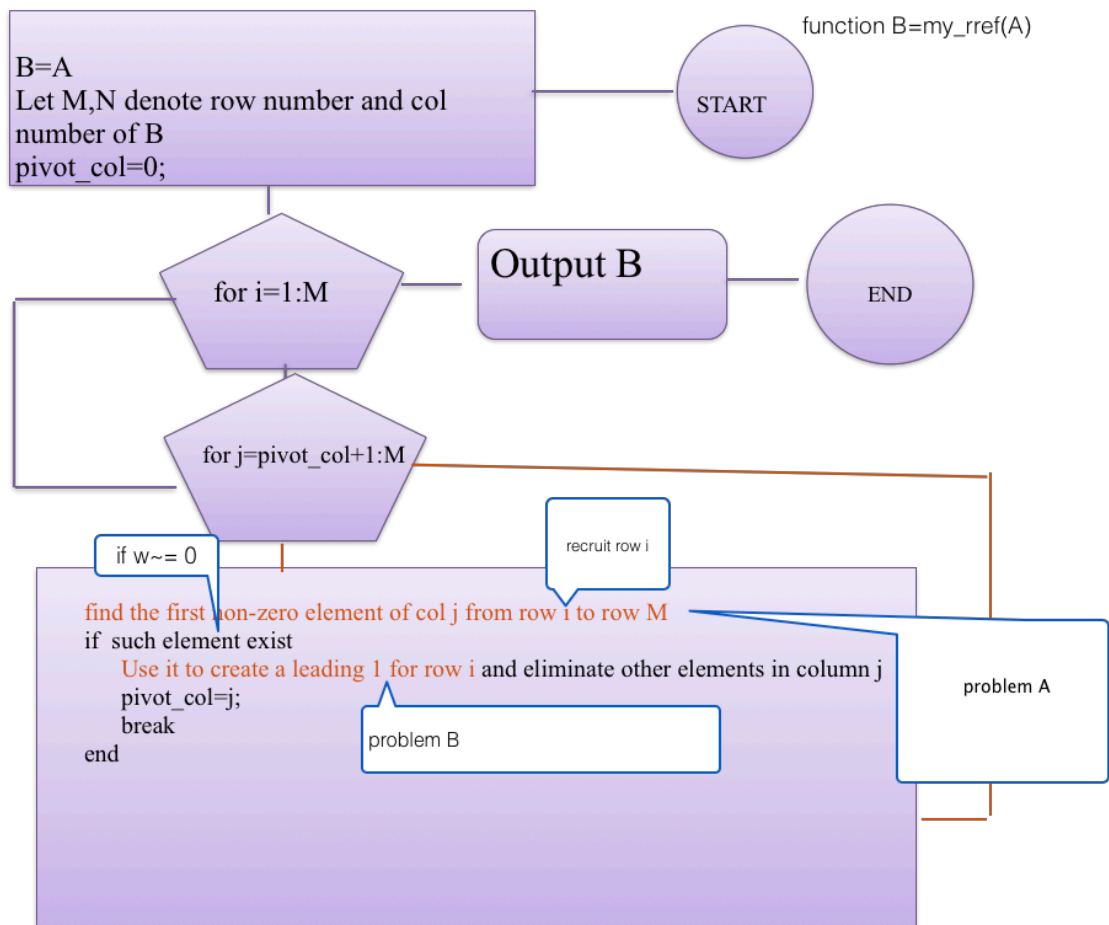


1. Consider the following flow chart



A. Write codes to resolve “find the first non-zero element of col j from row i to row M”.

B. Write codes to resolve “Use it to create a leading 1 for row i”

2. Write codes to implement my_rref

3. (100 points) Test my_rref with

A. $A=[0\ 0\ 2\ -2; 3\ 3\ -3\ 9; 4\ 4\ -2\ 11]$; $b=[2\ 12\ 12]$; $\text{my_rref}([A\ b'])$

B. $A=[3\ -3\ 3; 2\ -1\ 4; 3\ -5\ -1]$; $b=[9\ 7\ 7]$; $\text{my_rref}([A\ b'])$

C. $A=[1\ 2\ -1\ 3; 2\ 4\ -2\ 7; -1\ -2\ 1\ -4]$; $b=[4\ 10\ -6]$; $\text{my_rref}([A\ b'])$

D. $A=[1\ 1\ 5; 0\ 1\ 3; 1\ 2\ 8]$; $b=[3\ -1\ 3]$; $\text{my_rref}([A\ b'])$

E. $A=[1\ -1\ -2; 2\ -3\ -5; -1\ 3\ 5]$; $\text{my_rref}([A\ \text{eye}(3)])$

F. $A=[1\ 1\ 5; 1\ 2\ 7; 2\ -1\ 4]$; $\text{my_rref}([A\ \text{eye}(3)])$