

$$\text{factor} = \frac{Y(j,i)}{Y(i,i)}$$

$$Y(j,:)=Y(j,:)-(factor)*Y(i,:)$$

update counter

end FOR

end IF

end FOR

6. % Backsubstitution

$$X = \text{zeros}(1, \text{col}(A))$$

for i = row(Y) :-1:1

$$\text{temp} = \text{sum}(Y(i,i+1:\text{col}(Y)-1) * X(i+1:\text{size col}(X)))$$

$$X(i) = \frac{Y(i, \text{col}(Y)) - \text{temp}}{Y(i,i)}$$

update counter

END for.