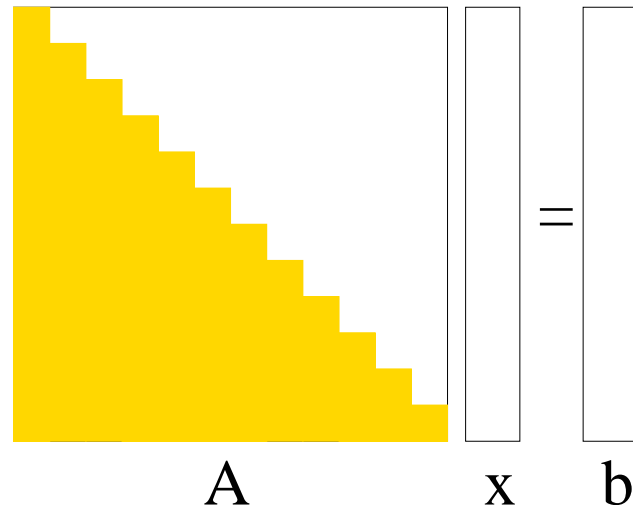


# Sistema triangolare inferiore



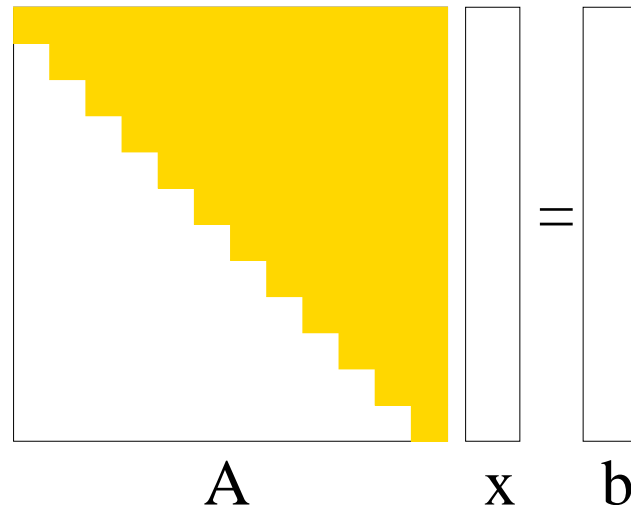
$$\left\{ \begin{array}{l} x_1 = \frac{b_1}{a_{11}} \\ x_i = \frac{b_i - \sum_{k=1}^{i-1} a_{ik} x_k}{a_{ii}} \end{array} \right.$$

## *In* FORTRAN

```
do i=1,n
  s=0
  do j=1,i-1
    s=s+a(i,j)*x(j)
  end do
  x(i)=(b(i)-s)/a(i,i)
end do
```

```
do i=1,n
  s=sum(a(i,1:i-1)*x(1:i-1))
  x(i)=(b(i)-s)/a(i,i)
end do
```

# Sistema triangolare superiore



$$\left\{ \begin{array}{l} x_n = \frac{b_n}{a_{nn}} \\ x_i = \frac{b_i - \sum_{k=i+1}^n a_{ik}x_k}{a_{ii}} \end{array} \right.$$

## *In* FORTRAN

```
do i=n,1,-1
  s=0
  do j=i+1,n
    s=s+a(i,j)*x(j)
  end do
  x(i)=(b(i)-s)/a(i,i)
end do

do i=1,n
  s=sum(a(i,i+1:n)*x(i+1:n))
  x(i)=(b(i)-s)/a(i,i)
end do
```