(%i1)
```
u: matrix(
 [0.34,−1.99,2/7,0],
 [0,1.1,2.3,−3.57],
 [0,0,3.2,33],
 [0,0,0,66.72]
);
```

(u)
$$\begin{bmatrix} 0.34 & -1.99 & \frac{2}{7} & 0 \\ 0 & 1.1 & 2.3 & -3.57 \\ 0 & 0 & 3.2 & 33 \\ 0 & 0 & 0 & 66.72 \end{bmatrix}$$

(%i2)
```
matrix_size(u);
```

(%o2) $[4,4]$

(%i4)
```
c:%o2;
```

(%i5)
```
x:makelist(1,i,1,c[1]);
```

(x) $[1,1,1,1]$

(%i6)
```
[
          1,34,78,−9.42                    ];
```

(%o6) $[1,34,78,-9.42]$

(%i8)
```
b:%o6;
```

(b) $[1,34,78,-9.42]$

(%i9)
```
for i:c[1] step −1 thru 1 do x[i]:1/(u[i][i])·(b[i] − sum(u[i][j]·x[j],j,i+1,c[1]));
```

(%o9) *done*

(%i10)
```
u.x;
```

(%o10)
$$\begin{bmatrix} 1.0 \\ 34.0 \\ 78.00000000000002 \\ -9.42 \end{bmatrix}$$