

GE.m

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1
2 %A=[3 2 -1;2 -2 4;-1 0.5 -1];
3 A=[1 2 3;4 5 6;7 5 6];
4 %B=[1;-2;0];
5 %A=[A B];
6 U=A;
7 M=eye(3);
8 L=eye(3);
9 [N,M]=size(A);
10 for i=1:N-1
11     for j=i+1:N
12         k=U(j,i)/U(i,i);
13         M(j,i)=-k;
14         U(j,:)=U(j,:)-k*U(i,:);
15     end
16     disp(M)
17     L=M*L;
18     M=eye(3)
19 end
20 %x=BS(L);
21 disp("Solution is:");
22 disp(L);
23 disp(U);
24 disp(L*A);
```

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