

inverse.m

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

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