```
% main_lab6.m
clc; clear;
A = [-8 \ 1 \ 5 \ 9;
    -6 9 3 -4;
     -5 -2 9 -9;
     8 -4 3 -3];
b = [-2; -7; 9; -5];
% LU factorization from previous lab
[L,U] = MYLU(A);
% Solve Ly = b (forward substitution)
y = forward4(L,b);
% Solve Ux = y (backward substitution)
x = backward4(U,y);
disp('Solution x = ');
disp(x);
Solution x =
  -1.4333
   -1.7566
   -0.9564
   -0.7698
```

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