

```
A = [4 1 1 1;1 3 -1 1;1 -1 2 0;1 1 0 2];  
b = [0.65;0.05;0;0.5];  
  
R = cholesky_factorization(A);  
  
Y = forward_substitution(R.',b);  
X = backward_substitution(R,Y);  
  
disp(X)
```

```
0.2000    -0.2000    -0.2000     0.2500
```

