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In [3]: import numpy as np
        from scipy import linalg as la
```

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In [2]: A=np.array([[1,0],[0,1],[1,1]])
        b=np.array([-1,1,0])
```

```
In [6]: AtA = np.dot(A.transpose(),A)
        Atb = np.dot(A.transpose(),b)
        AtA_inverse = np.linalg.inv(AtA)
```

```
In [7]: xhat = np.dot(AtA_inverse,Atb)
        print('x by least squares =',xhat)

        x by least squares = [-1.  1.]
```

```
In [ ]:
```