

# pythonMatrix

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[2]: import numpy as np
A = np.array([
    [1000, 50, 150, 200],
    [50, 50, 100, 300],
    [100, 150, 200, 100],
    [50, 200, 300, 50],
    [200, 50, 250, 50],
    [300, 50, 50, 200]
])

b = np.array([2500, 2300, 3000, 2900, 3100, 4300])

# Gaussian Elimination (using numpy's solve function)
x_gaussian = np.linalg.solve(A.T @ A, A.T @ b)
print(x_gaussian)

[0.40234563  4.59314954  6.52804218  7.97938038]
```

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[ ]:
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