

In [198...

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import numpy as np

def my_convolve(a, b):
    pad_length = len(b)-1
    a = [0]*(pad_length) + a
    c = [0]*len(a)

    for n in range(len(c)):
        for i in range(min(len(b), len(a)-n)):
            c[n] += a[n+i]*b[-1-i]
    return c

a = np.random.randn(10).tolist()
b = np.random.randn(3).tolist()

np_result = np.convolve(a, b)
my_result = np.array(my_convolve(a, b))
print(f"max error: {np.max(np.abs(np_result-my_result))}")
```

max error: 1.3877787807814457e-17