总体上很顺利,基本上都能完成任务 问题:

▶ 向量外积的计算我根据数学定义使用了循环算法,不知道这样是否算 "broadcasting"

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In [70]: 

| a=np. array([1, 2, 3, 4]) b=np. array([4, 5, 6]) #np. outer print (np. outer (a, b)) #broadcasting def Outer(a, b):
| a0=np. zeros((a. shape[0]), b. shape[0])) for i in range(a. shape[0]):
| for j in range(b. shape[0]):
| a0[i, j]=a[i]*b[j] return a0 print(Outer(a, b)) # I wonder whether this method is broadcasting.

| [4 5 6] [8 10 12] [12 15 18] [16 20 24] [4 5 6.] [8 10. 12.] [12 15 18.] [16. 20. 24.] ]
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> 含横向量(行数为一)的爱因斯坦求和会报错 "einstein sum subscripts string contains too many subscripts for operand 0",我使用了 np. dot()函数代替,请问这里如果想使用 einsun 函数该如何解决?