



```

np_out = torch.einsum('ik,jkl,il->ij', [a, b, c]).numpy()
# ik broadcast[]ikl
# il broadcast[] ikl
# 'ik,jkl,il->ij'[][][]'ikl,jkl,ikl->ij'

for i in range(0, 2):
    for j in range(0, 5):
        # [][][][] [] k [] l
        sum_result = 0
        for k in range(0, 3):
            for l in range(0, 7):
                sum_result += np_a[i, k] * np_b[j, k, l] * np_c[i, l]
        np_out[i, j] = sum_result

```

??

```

a = torch.rand(2,3)
b = torch.rand(3,4)
c = torch.einsum("ik,kj->ij", [a, b])
# [][][] torch.mm(a, b)

```

equation

[]  
 [] c [] c[i, j] [] a[i, k] b[k, j] k []

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