```
import numpy as np
       a = np.array([[1, 2, 3],
                      [7, 8, 9]])
       b = np.append(a<sub>2</sub>a.T).reshape(-1<sub>2</sub>a.shape[0], a.shape[1])
       print(f'\nDirect transpose:\n{b.T}')
       # transpose:
       c = np.moveaxis(b.T, -1, 0)
       c_ravel = c.ravel().astype(np.int)
       print(f'\nAfter transpose and move axis:\n{c}')
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       np.savetxt("c_ravel.txt", c_ravel)
       d = np.loadtxt("c_ravel.txt").astype(int).reshape(-1,a.shape[0], a.shape[1])
```

```
Before transpose:
[[[1 2 3]
 [4 5 6]
  [7 8 9]]
 [[1 4 7]
 [2 5 8]
  [3 6 9]]]
Direct transpose:
[[[1 1]
 [4 2]
 [[2 4]
 [5 5]
  [8 6]]
 [[3 7]
  [6 8]
  [9 9]]]
```