|  |  |  |  |
| --- | --- | --- | --- |
| nupy as np  linspace(start, end, n)  arrange(n)->array | Allcose #compare each elements in 2 arrays within a tolerance  all  any  alltrue  sometrue |  |  |
| Indexing and slicing  a[i]  a[i:j,]  a[::2] # select every other element  a[::-1] # reverse |  |  |  |
| diag #get diagonal elements or create a diagonal matrix |  |  |  |
| tile(a,n) # repeats ‘a’ ‘n’ times |  |  |  |
| np.reshape(n,m) |  |  |  |
| a = np.arange(10)  b = a[::2]  np.may\_hare\_memory(a,b) # check if a,b are sharing same memory space  c = a[::2].copy() # force a copy |  |  |  |
|  |  |  |  |
|  |  |  |  |