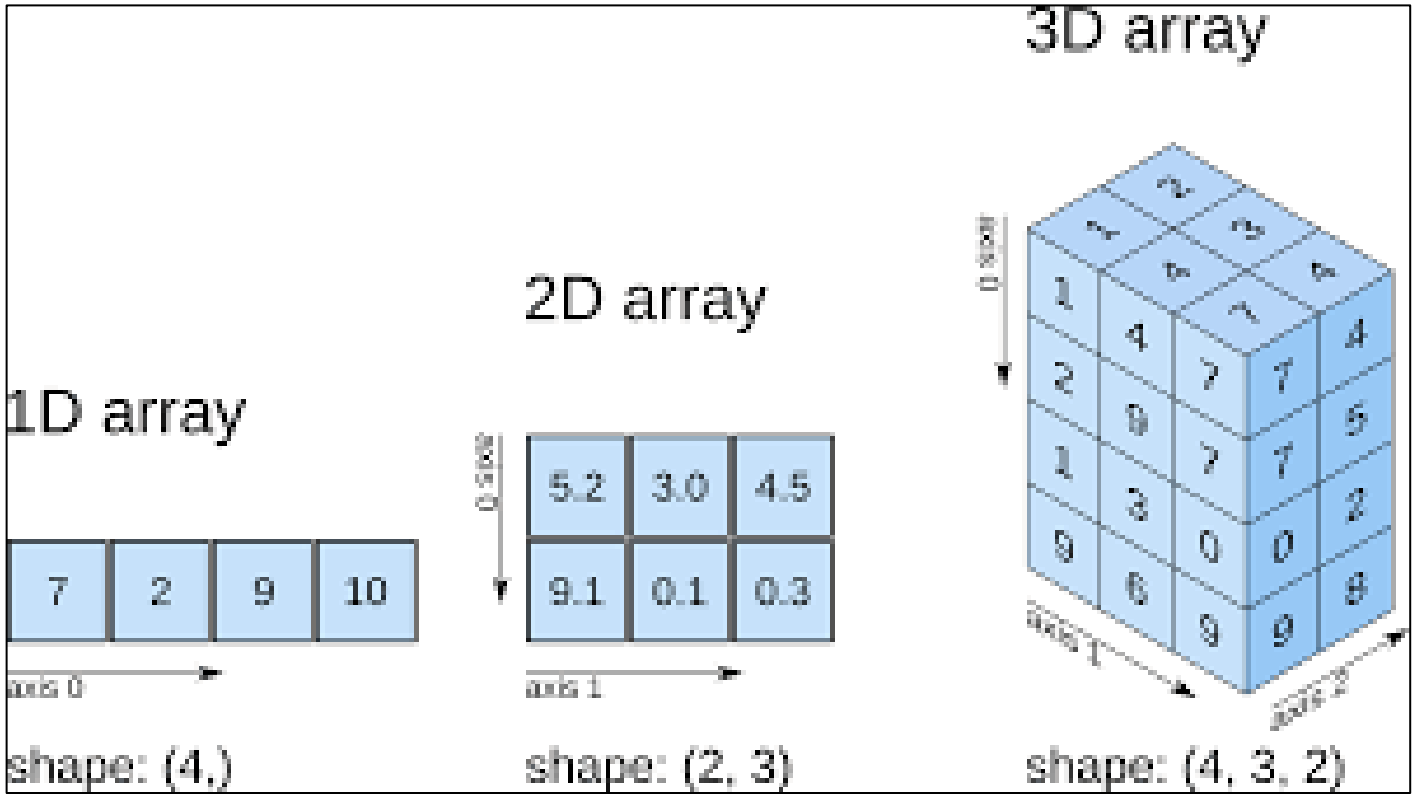
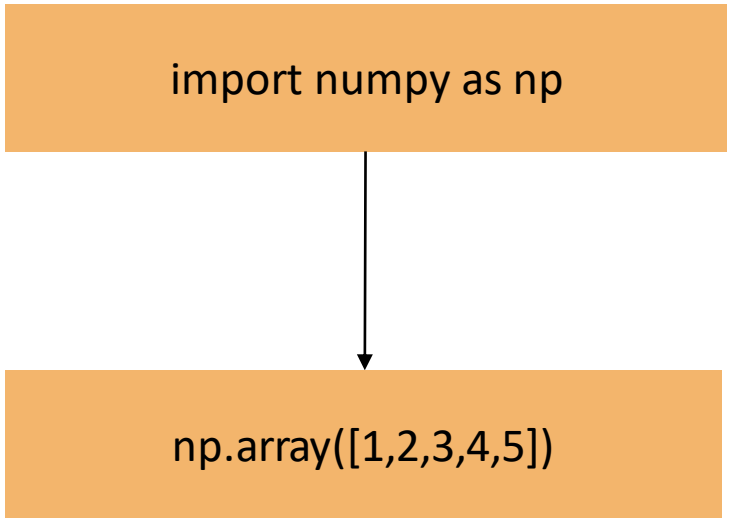
Numpy Arrays

UTKARSH GAIKWAD

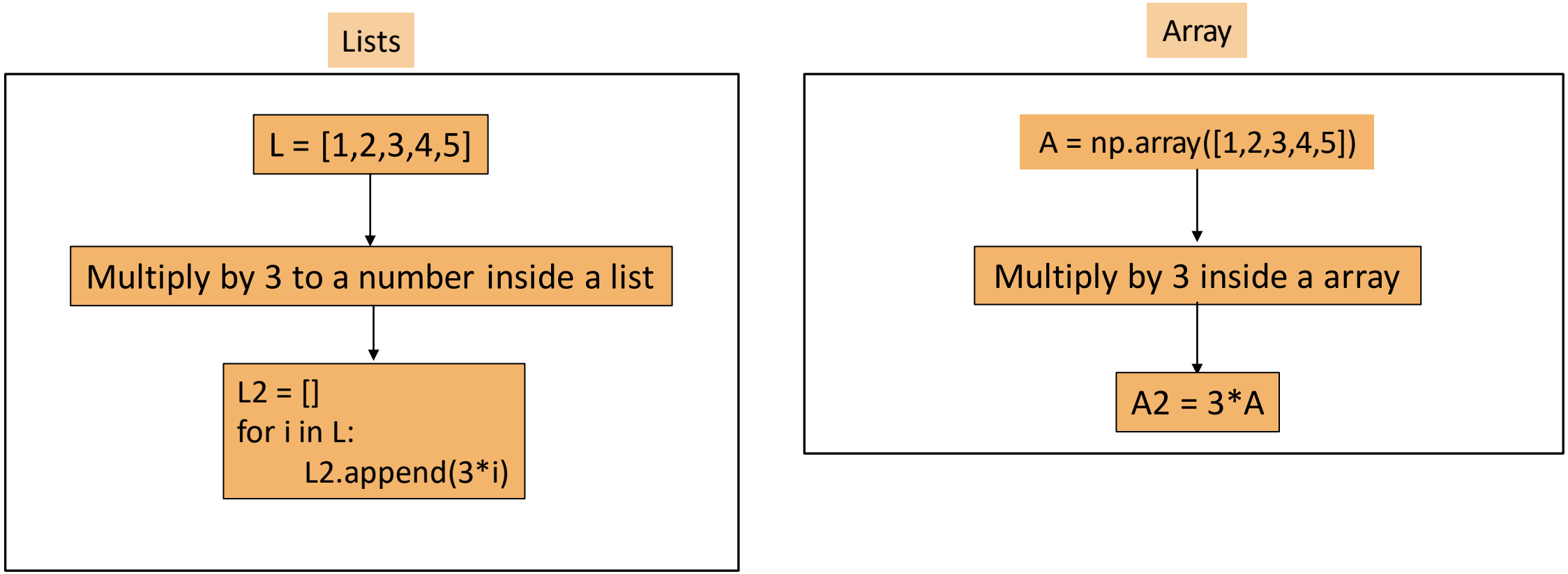
What is numpy array?



Creating array in numpy

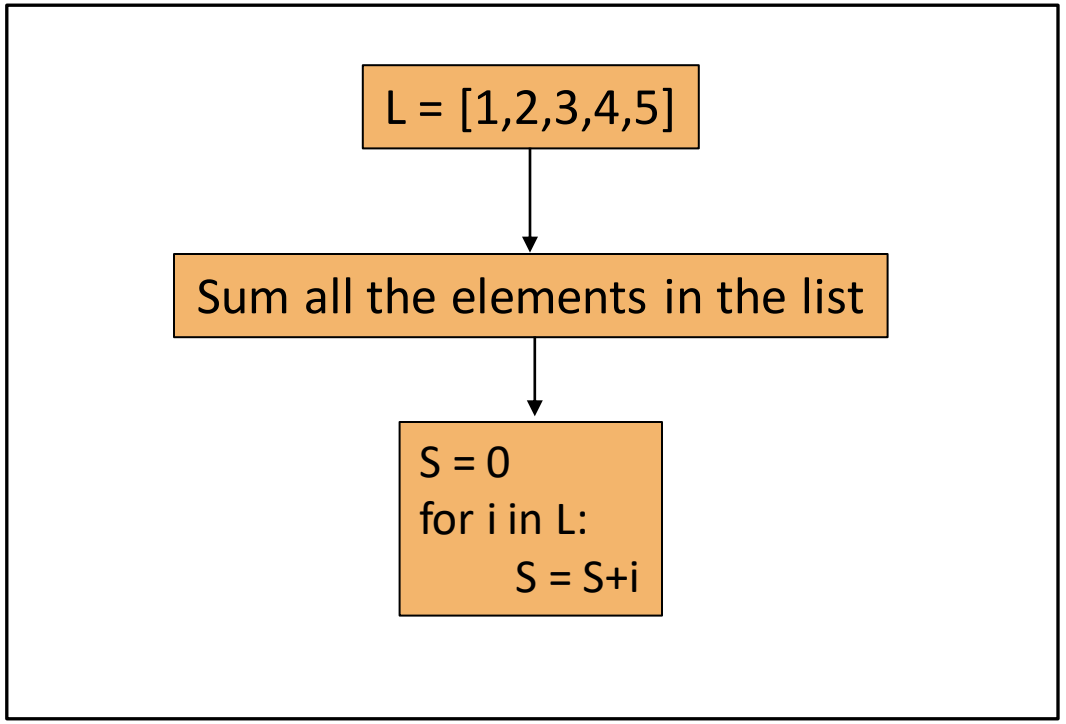


Advantages of numpy compared to a list

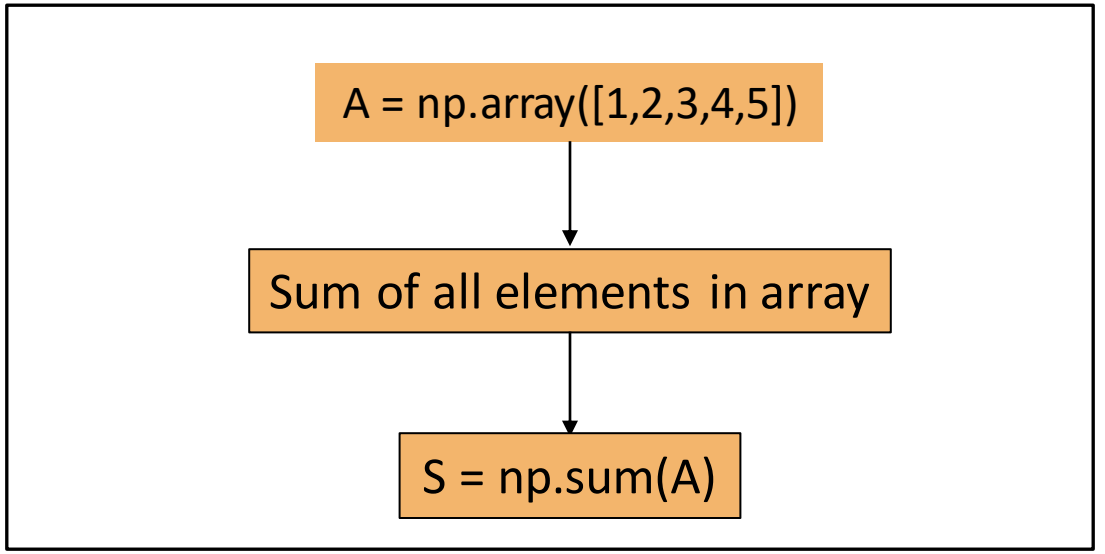


Advantage of numpy compared to a list

Lists



Array



Numpy aggregation

np.sum(A)

np.mean(A)

np.std(A)

np.max(A)

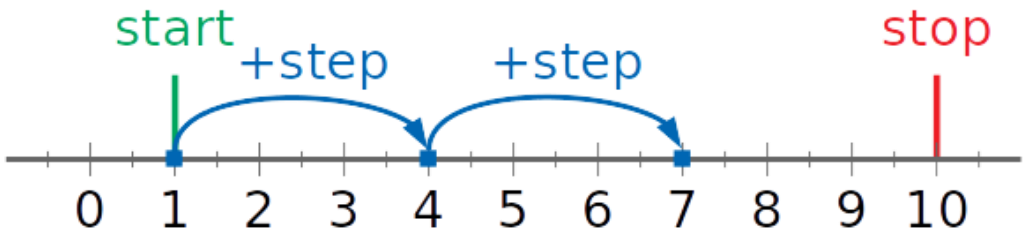
np.min(A)

np.prod(A)

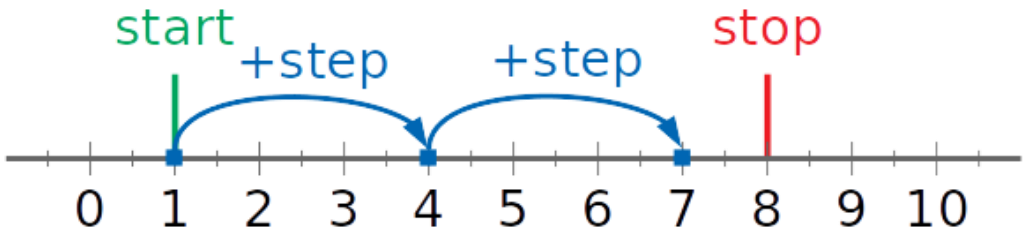
Generating Data Through Numpy

np.arange(start,stop,step)

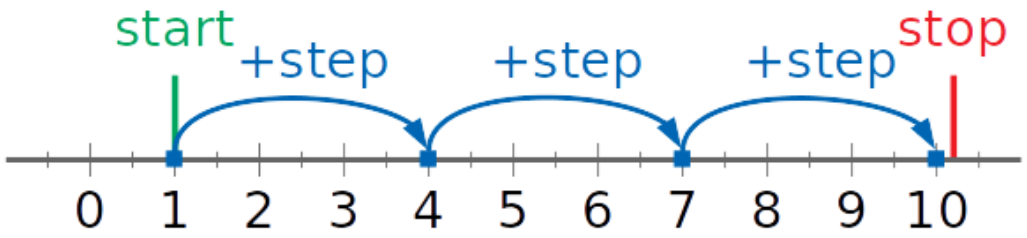
```
>>> np.arange(1, 10, 3)
array([1, 4, 7])
```




```
>>> np.arange(1, 8, 3)
array([1, 4, 7])
```

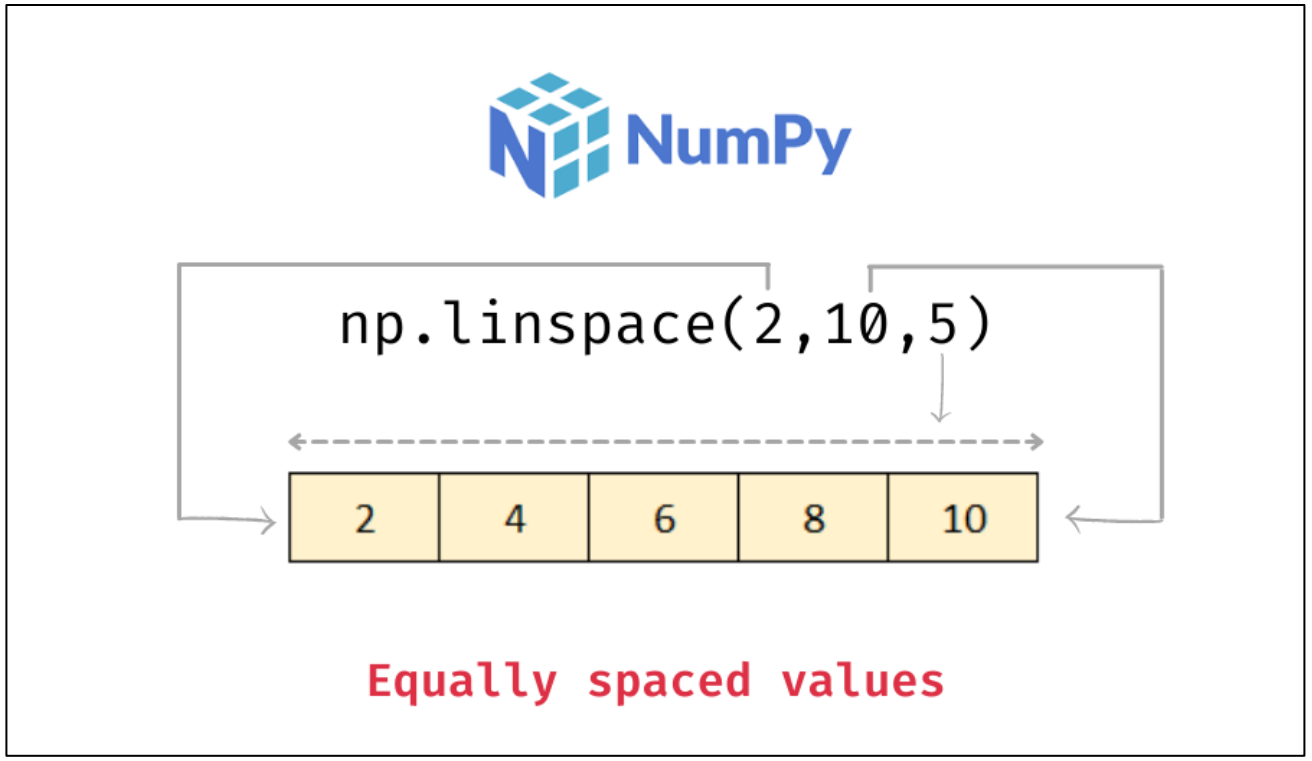



```
>>> np.arange(1, 10.1, 3)
array([1., 4., 7., 10.])
```

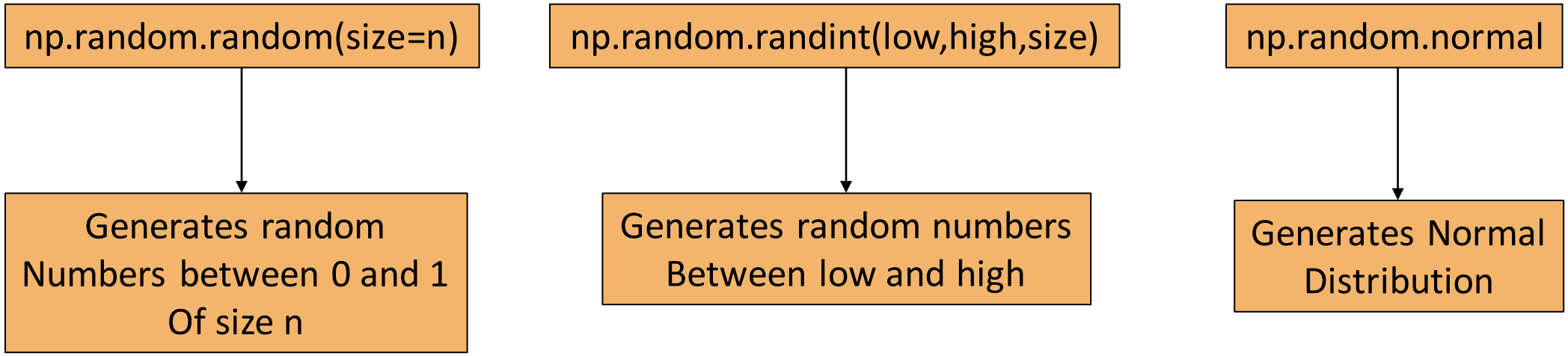


Generating Data Through numpy

np.linspace(start,stop,num)



Generating random numbers in numpy



Common functions in numpy

np.sqrt(A)

np.sin(A)

np.cos(A)

np.tan(A)

np.log(A)

np.exp(A)

Thank you

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ONCE PRACTICAL COMPLETED YOU CAN LEAVE FOR THE DAY