

Agenda

* Converting

^{2D}
Matrix

Back to

vector

ID

- flatten()

* Indexing on 2D array

* 2D - Slicing

* 2D - Masking (Fancy Indexing)

Assignments

* 2D - Axis

* Introduction to Fitbit usecase

data analysis

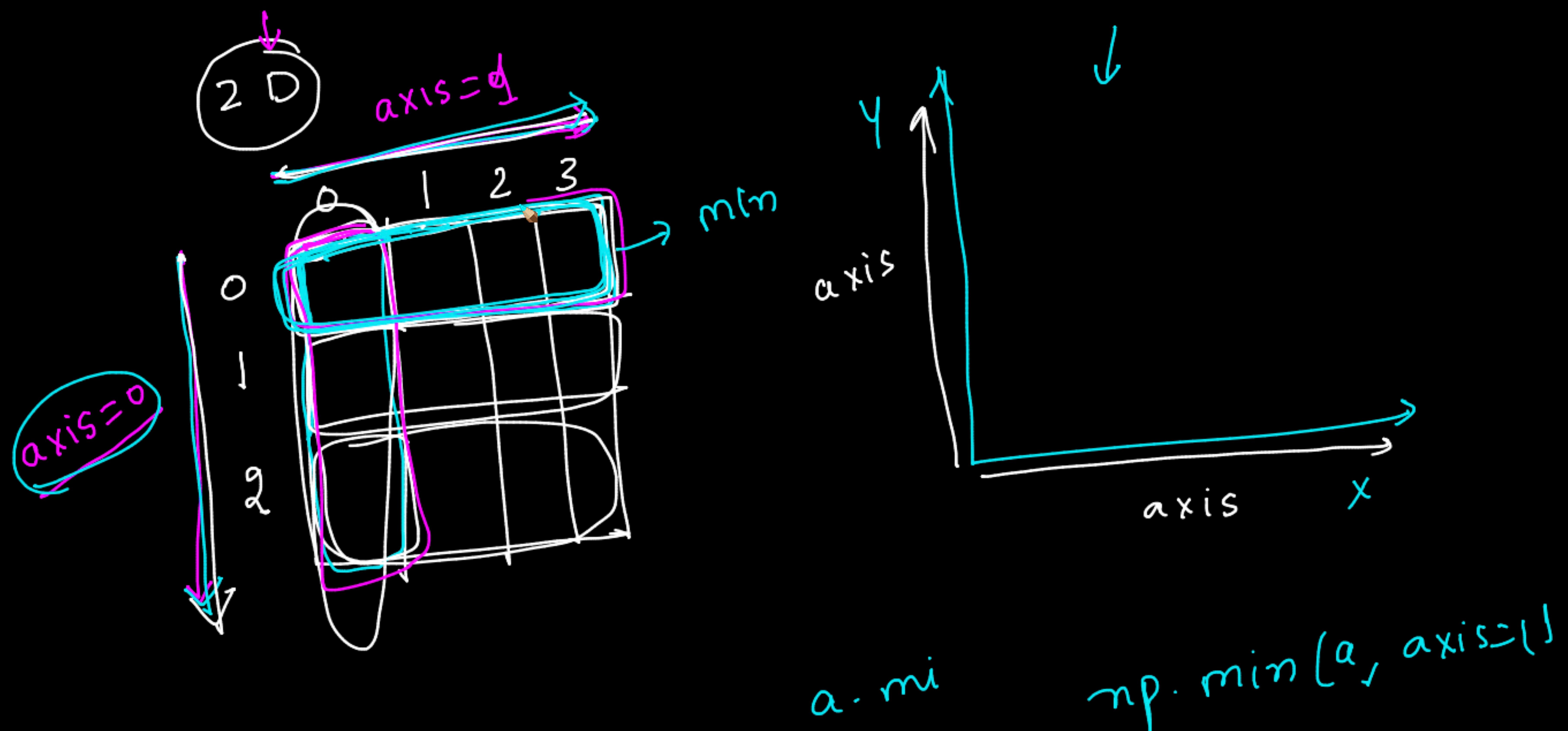
* Fitbit Solution

* Sorting

* Matrix Multiplication

A^T

* Vectorization.

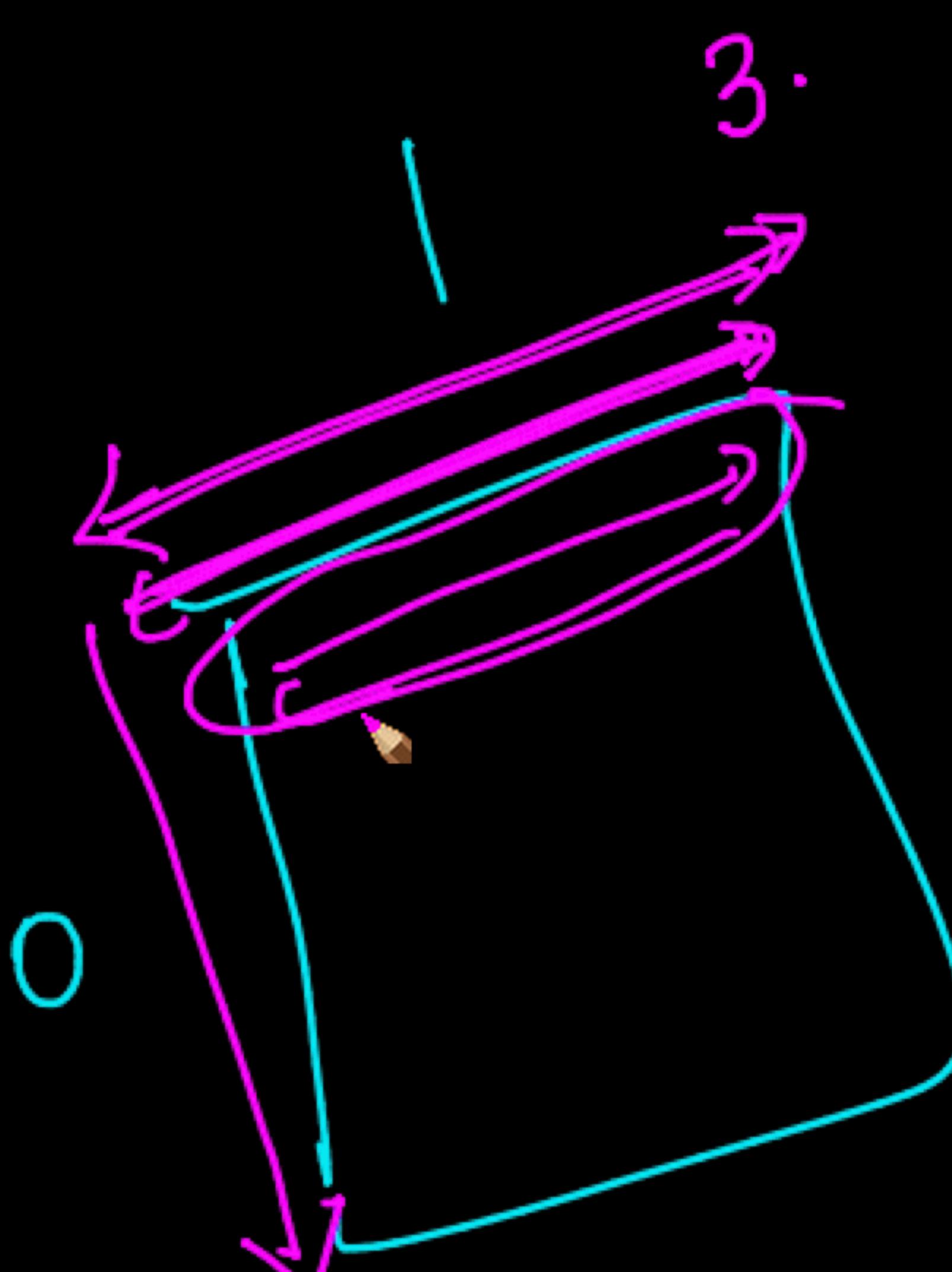


1. $\text{arr} = \text{np.array}(10, 0, -1)$

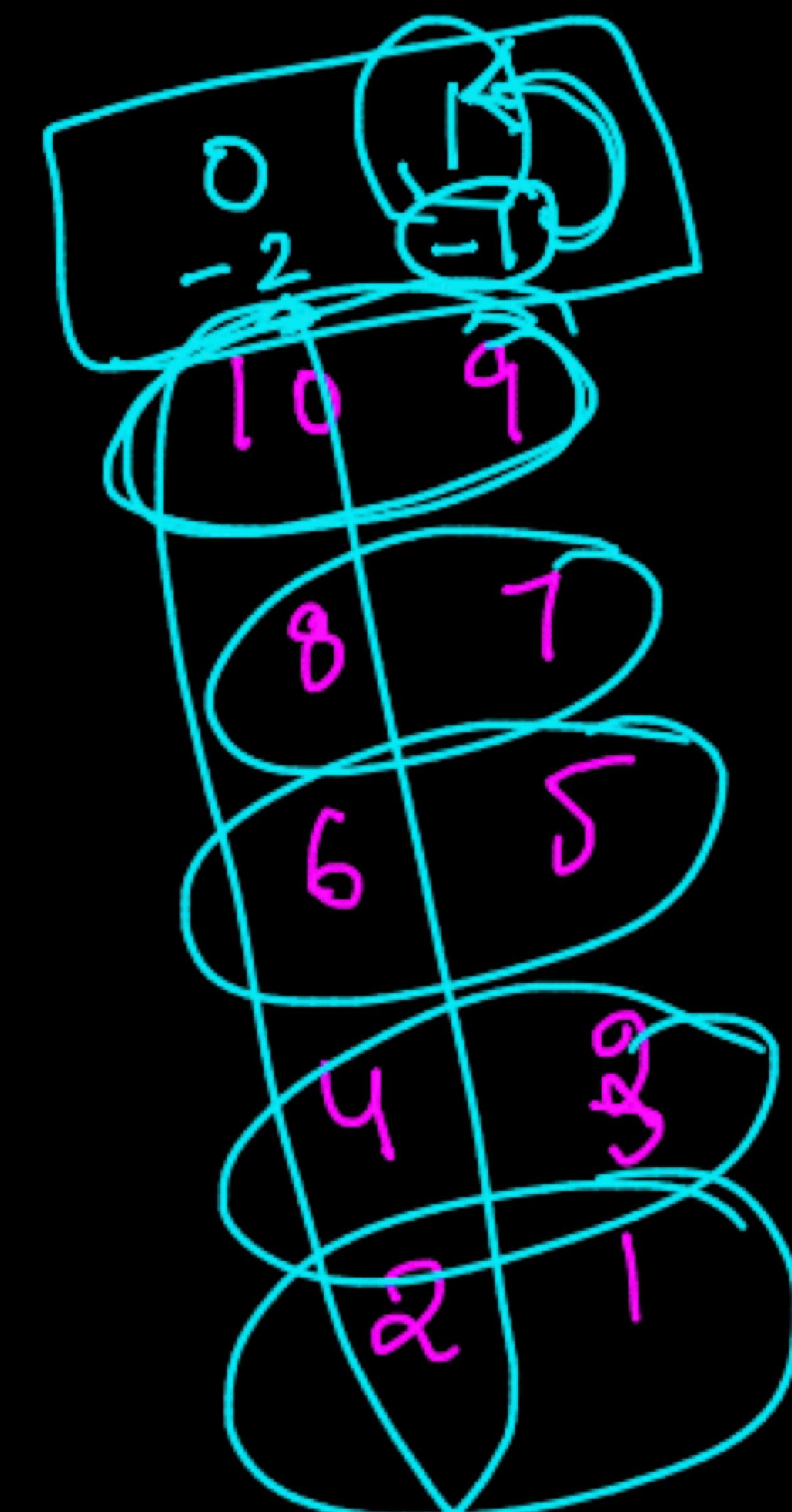
$[10, 9, 8, \dots]$
 -10

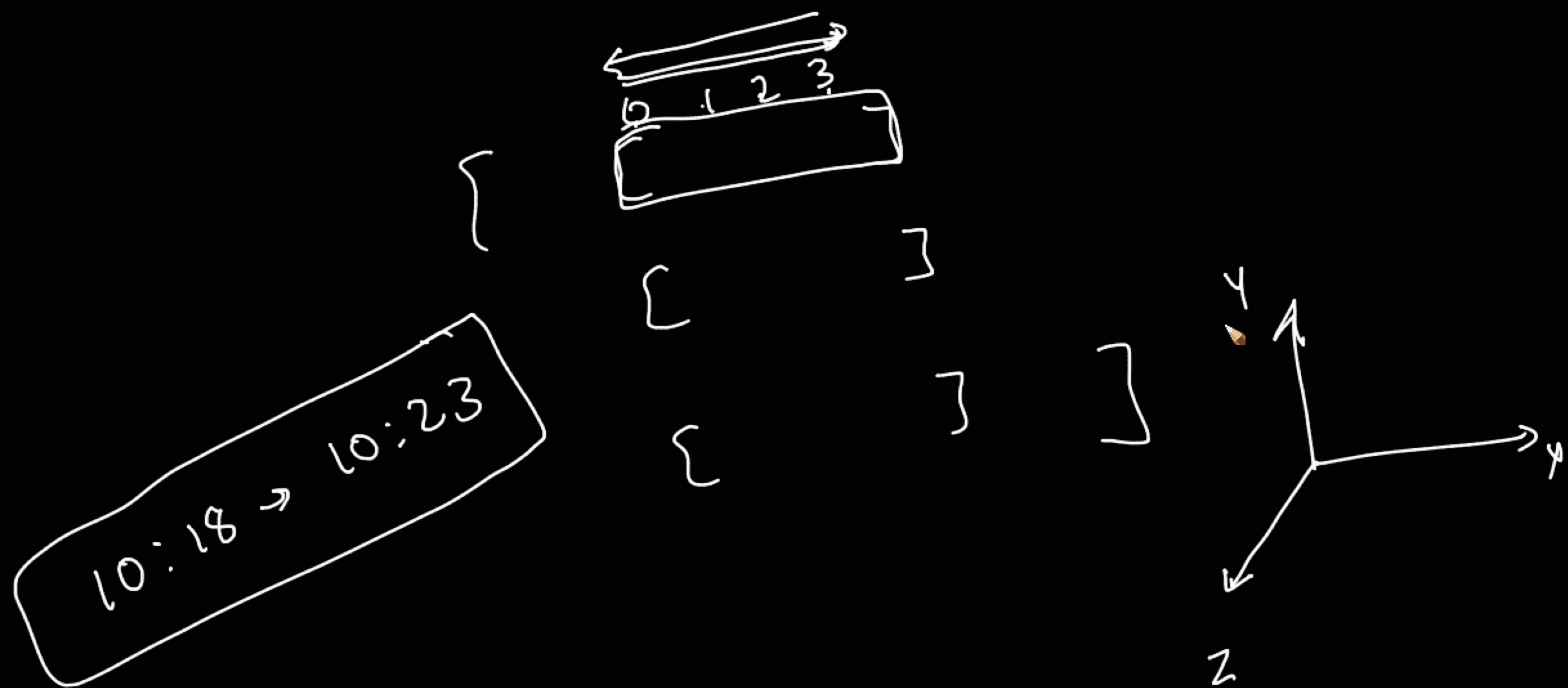
2. $\text{arr} = \text{arr.reshape}(5, 2)$

arr.sum(axis=-1) . shape



$[19, 15, 11, 1, 3]$
 $(5,)$





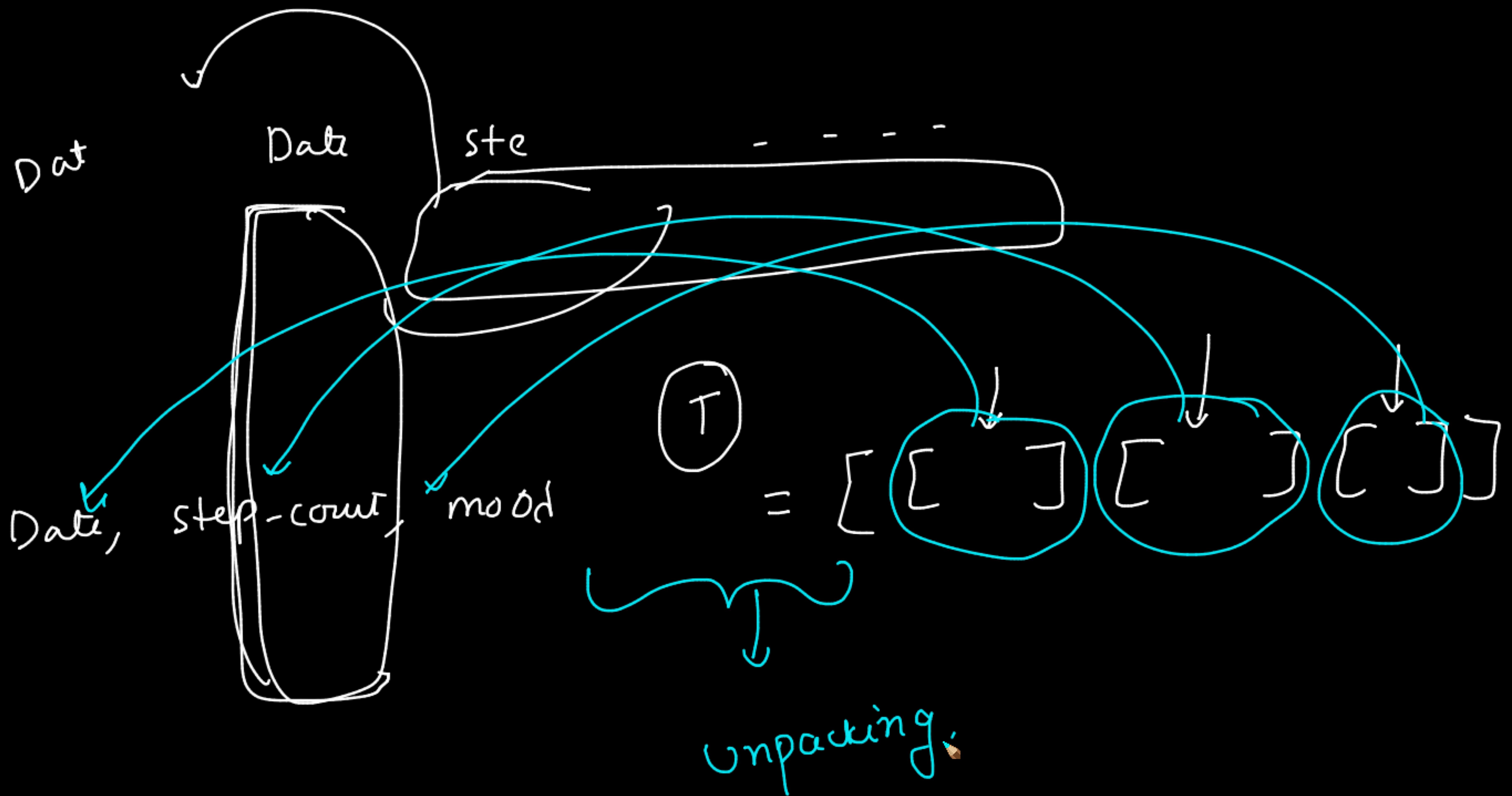
Fit bit

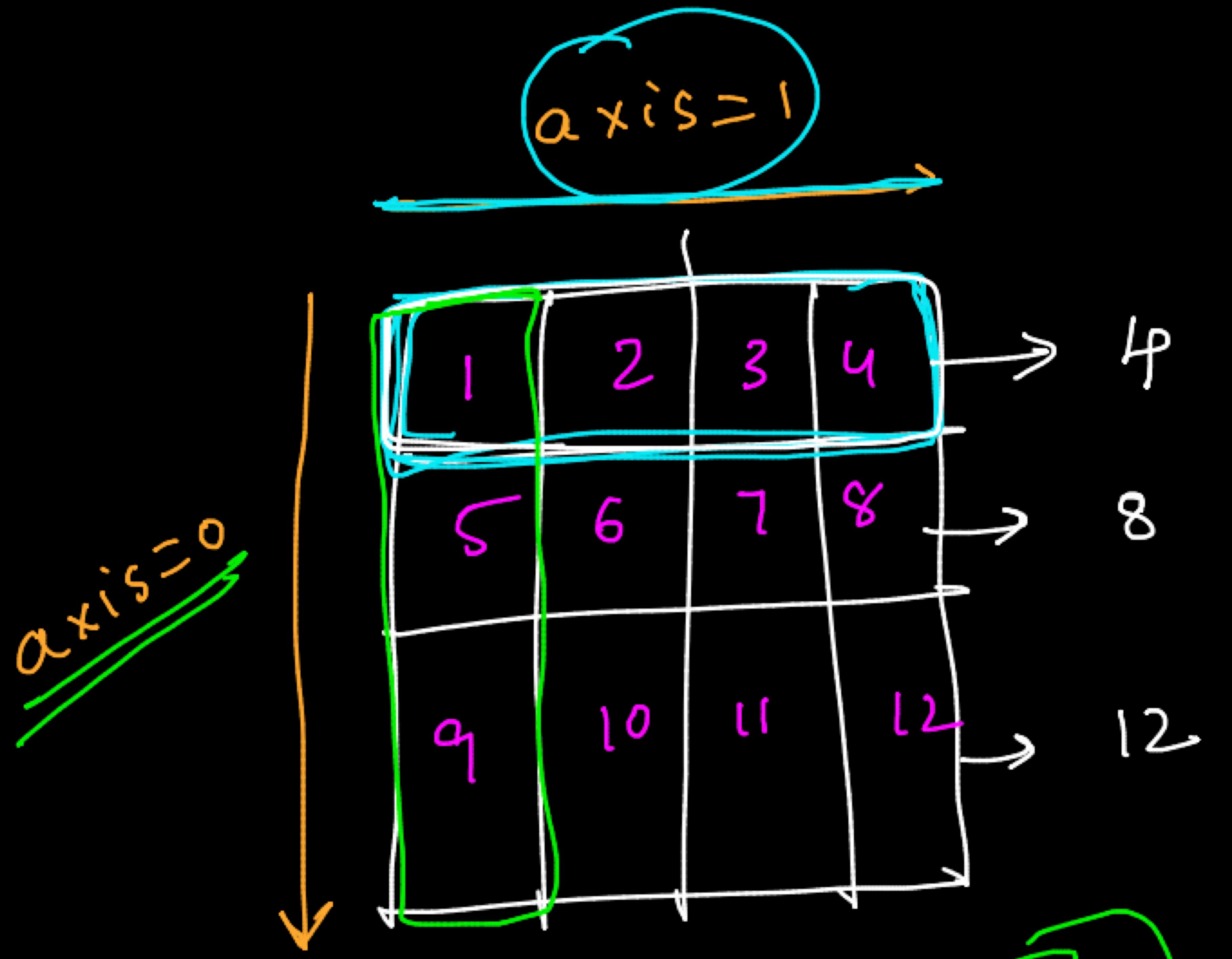
analyse & find some insights

Exploratory Data Analysis

Asking right question

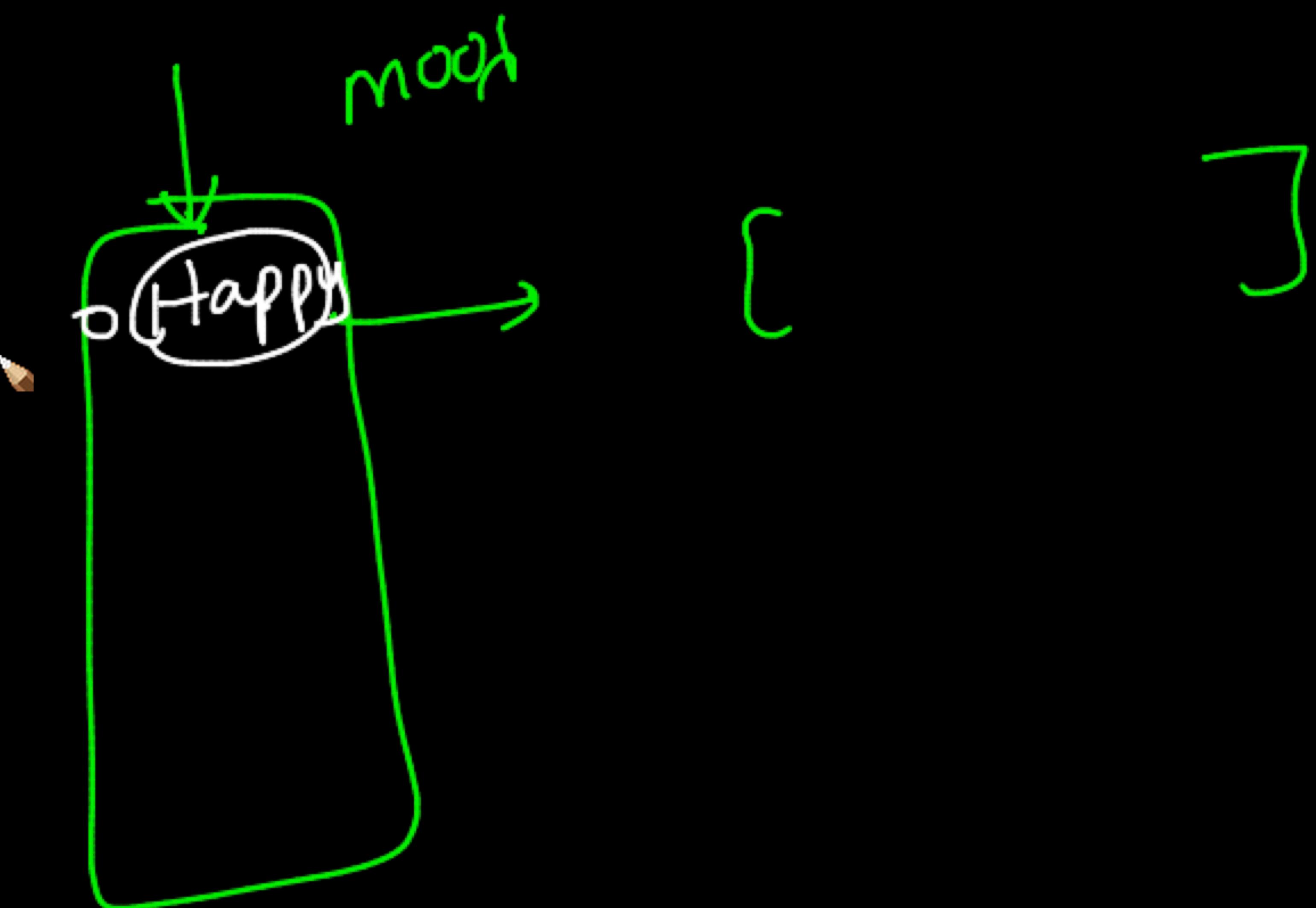
- {(1) How many features & records
(2) what is the avg stepcount
(3) which day the stepcount was highest / lowest
(4) How daily activity affects sleep & mood?





2 - Dire

`np.matrix(a, axis=1)`
axis=0



a = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

a < 6

mood = ['Happy', 'Sad', '---']

mood == 'Sad'

[True]