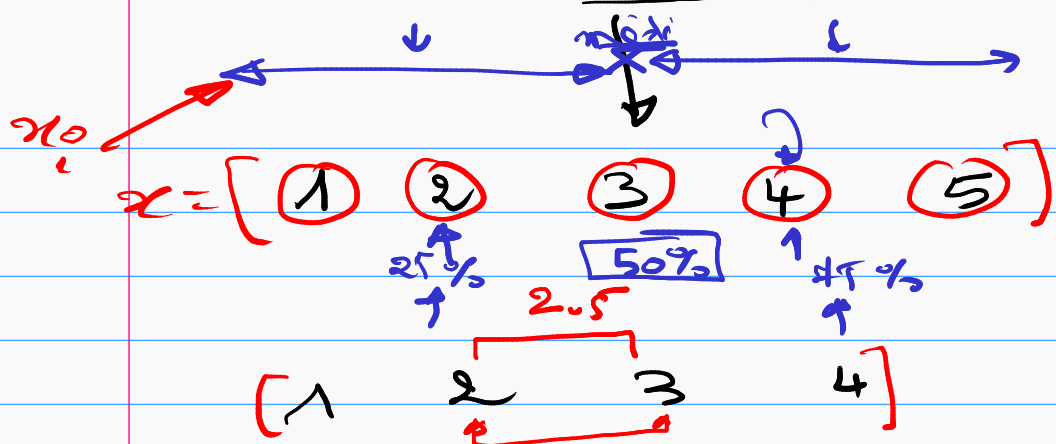
médiane



1er Quart $\left(\frac{1}{4}\right)$

1er quartile

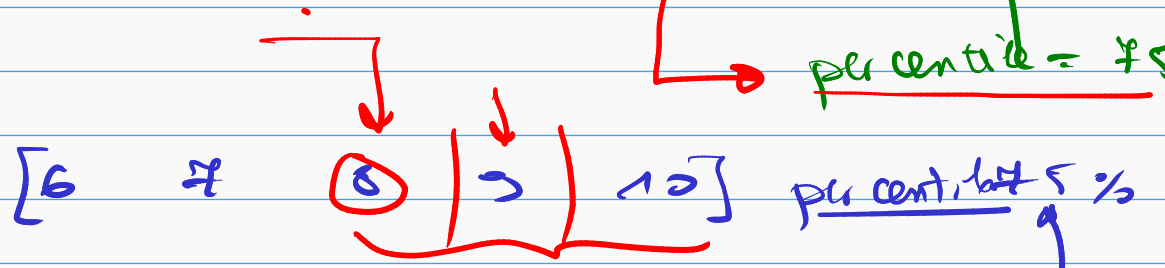
||

percentile 25 %

3ième quartile

$\left(\frac{3}{4}\right)$

percentile = 75



percentile 5 %

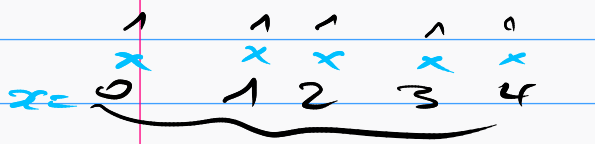
9

1 2 3

4 5 6 → 1 2 3 4 5 6 7 8 9

med

4 8 9



$\frac{0+1+2+3+4}{5} = \bar{x} = 2$

moyenne simple

x	0	1	2	3	4
w	1	2	3	4	5

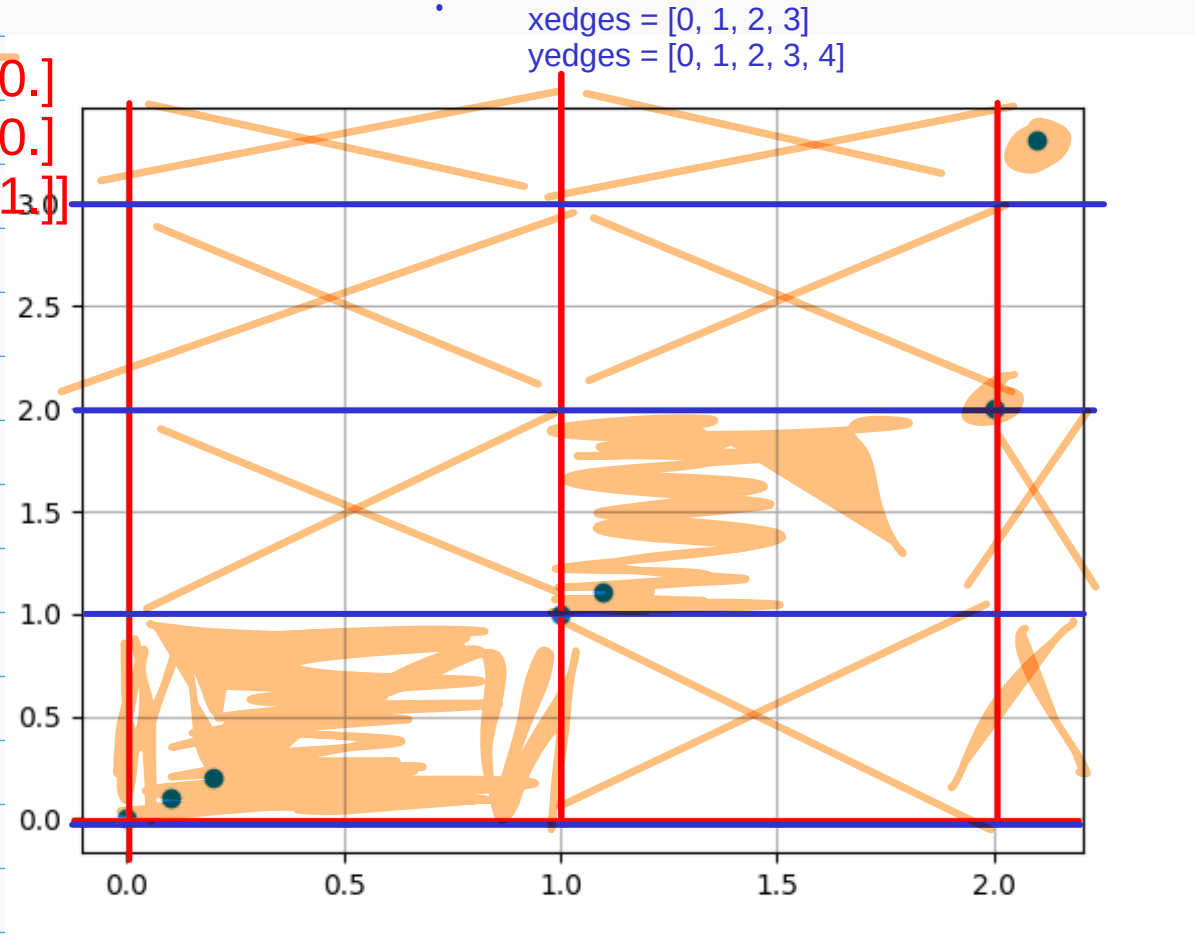
weighted average

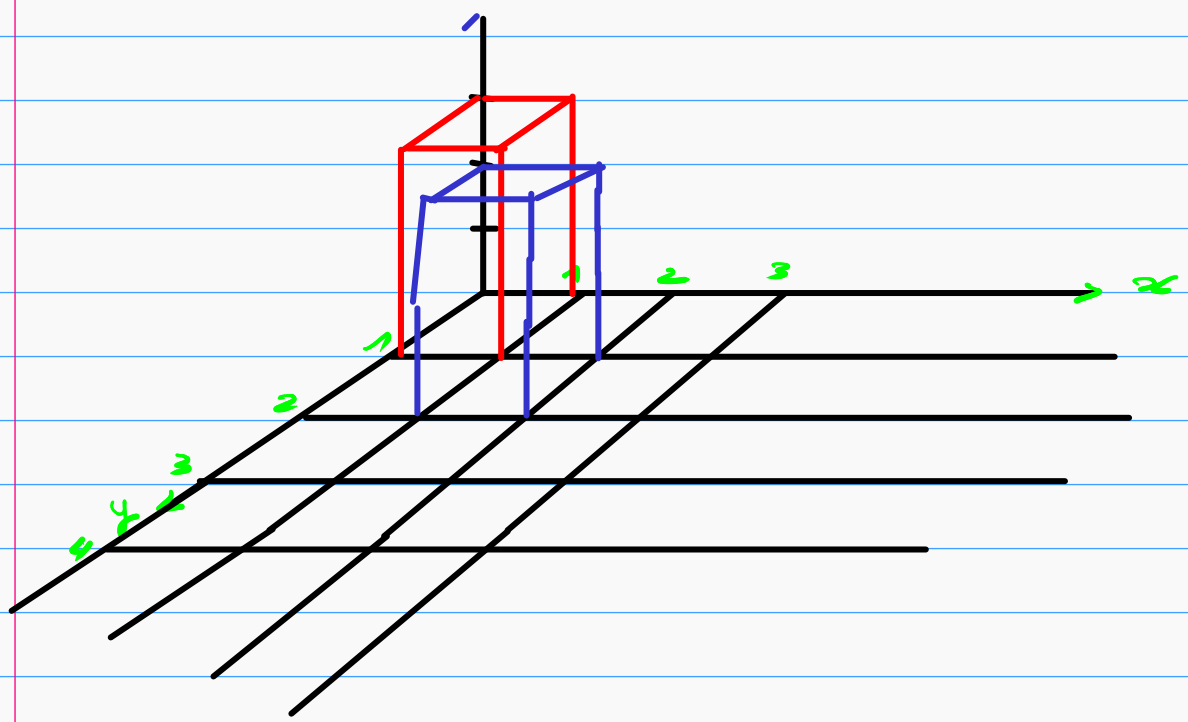
moyenne pondérée

$$\bar{x} = \frac{0\times 1 + 1\times 2 + 2\times 3 + 3\times 4 + 4\times 5}{1+2+3+4+5}$$

$$= \frac{40}{15} = \frac{8}{3} = 2,66$$

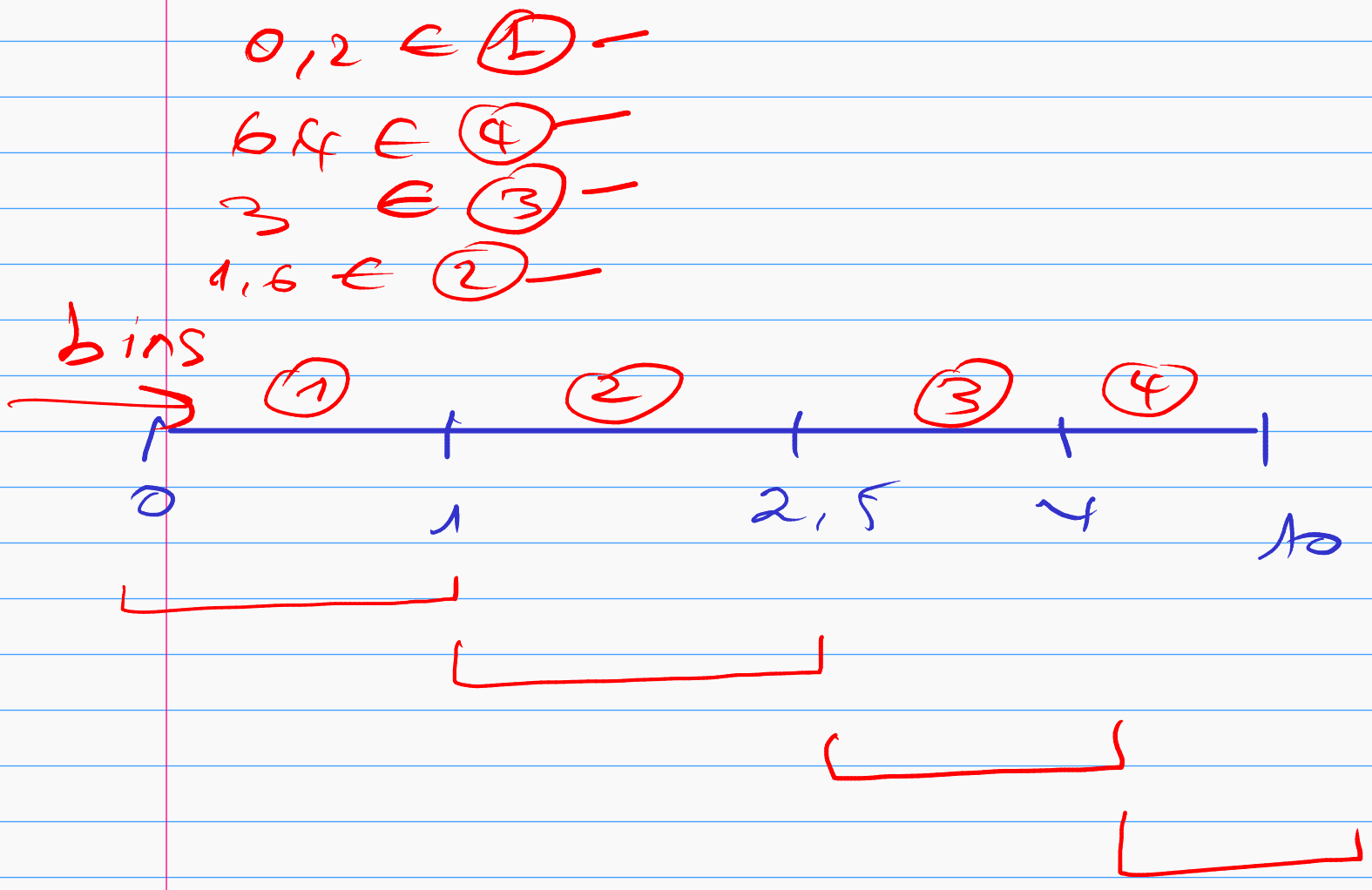
```
[[3. 0. 0. 0.]
 [0. 2. 0. 0.]
 [0. 0. 1. 1.]]
```





```
x = np.array([0.2, 6.4, 3.0, 1.6])
bins = np.array([0.0, 1.0, 2.5, 4.0, 10.0])

print("ans=\n", np.digitize(x, bins))
```



ans=
[1 4 3 2]