

Estacionariedad

A:

1	21
2	30
3	18
4	4
5	21
6	30
7	18
8	4
9	21
10	30
11	
12	

a partir del 8, tengo que copiar dos lugares

$$t=11$$

$$p=4$$

$$d=2$$

t = 1er valor desconocido, si p es el periodo y quiero d valores

$$A[t-p : t-p+d]$$

$$A[7 : 9] = [18, 4]$$

A

1	10
2	4
3	9
4	3
5	12
6	5
7	10
8	4
9	9
10	3
11	12
12	5
13	10
14	4
15	9
16	3
17	12
18	5
19	
20	
21	
22	
23	
24	

$$t=19 \quad p=6 \quad d=6$$

$$A[t-p : t-p+d] = A[13 : 19] = [10, 4, 9, 3, 12, 5]$$

$$\text{si } t-p+d > t$$

$$-p+d > 0$$

$$d > p$$

$$A[t-kp : t-kp+d]$$

$$k \in \{1, 2, \dots\}$$

$$k=2 \quad d=9$$

$$A[t-12 : t-12+9]$$

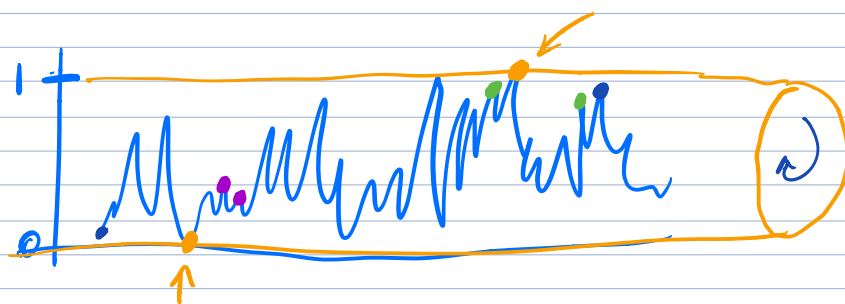
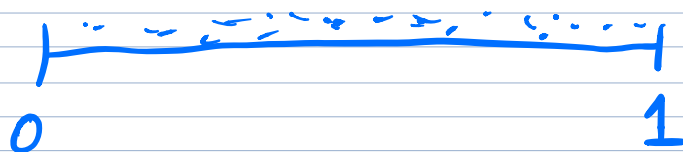
$$A[7 : 16]$$

Métricas

$L1: |x-y|$

$L2: \sqrt{x^2 - y^2}$

$L\infty: \sqrt{|x-y|}$



$S = [10, 4, 9, 3, 12, 5]$

$XS = \begin{pmatrix} 10 & 10 & 10 & 10 & 10 & 10 \\ 4 & 4 & 4 & 4 & 4 & 4 \\ 9 & 9 & 9 & 9 & 9 & 9 \\ 3 & 3 & 3 & 3 & 3 & 3 \\ 12 & 12 & 12 & 12 & 12 & 12 \\ 5 & 5 & 5 & 5 & 5 & 5 \end{pmatrix}$

$YS = \begin{pmatrix} 10 & 4 & 9 & 3 & 12 & 5 \\ 10 & 4 & 9 & 3 & 12 & 5 \\ 10 & 4 & 9 & 3 & 12 & 5 \\ 10 & 4 & 9 & 3 & 12 & 5 \\ 10 & 4 & 9 & 3 & 12 & 5 \\ 10 & 4 & 9 & 3 & 12 & 5 \end{pmatrix}$

'i,j' = "velo como matriz"

'x,y' = "velo como coord. cartesianas"

(i,j)
↑ ↑
row column

(x,y)
↑ ↑
column row

$$\text{mat} = \begin{pmatrix} 0 & 6 & 1 & 7 & 2 & 5 \\ 6 & 0 & 5 & 1 & 8 & 1 \\ 1 & 5 & 0 & 6 & 3 & 4 \\ 7 & 1 & 6 & 0 & 9 & 2 \\ 2 & 8 & 3 & 9 & 0 & 7 \\ 5 & 1 & 4 & 2 & 7 & 0 \end{pmatrix}$$