Cours EP

## Exo Tableau :

### T = 15 :

A = 7 (nombre de front montant)

D = 5 (nombre de front descendant)

Achelou = A/T = 7 / 15

X = D/T = 5 / 15

L = 29 / 15 =~ 2

R = L / X = 29 / 5 =~ 6

L = (0\*2 + 1\*3+ 2\*5 + 3\*4 + 4\*1)/15 = 29/15

T(0) = 2

T(1) = 3

T(2) = 5

T(3) = 4

T(4) = 1

### T = 12 :

A = 6

D = 3

Achelou = A/T = 6 / 12

X = D/T = 3 / 12

L = 17 / 12

R = L / X = 20 / 3

U=1 => saturation du système

U = B/T = (S.D)/T = S.X

S = B/D

B=S.D

U+S.X <=1 : X <= 1/S donc Xmax = 1/S

Xdisque = Udis/Sdis = 0.2/0.25 = 8 requêtes/s

Xsys = Xdis/8 = 1 transactions/s

Cours slide 13-14

X = date de panne

X ~ Loi exponentielle (lambda)

E[X] = 5 ans = 1/lambda ⇒ lambda = 1/5 an^-1

⇒ P(X<= 3 ans) = 1 - e^(-⅕ \* 3) = 1 - e^(-⅗) = 0,4512

