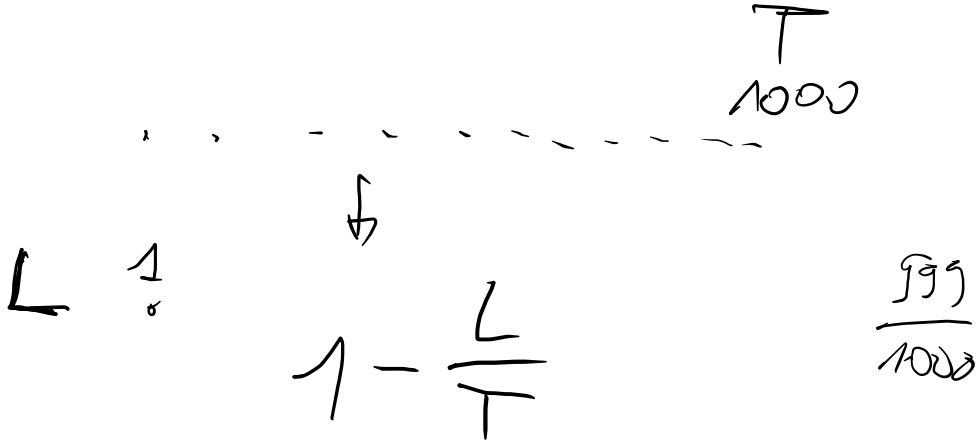
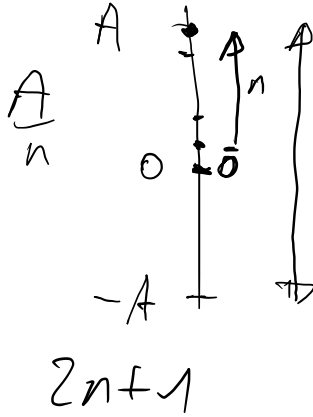


erreur
valeur



$M = A A B B A A C C \dots$ → n

1) voc freq

A	B	C				
n_A	n_B					

→ somme S

3) $P_A = \frac{n_A}{S}$ $\frac{n_X}{S}$

..... →

4) $H(M) = - (P_A \log(P_A) + P_B \log(P_B) + \dots + P \dots)$

$$\log_2(x) = \frac{\log(x)}{\log(2.0)}$$

$$H(M) = - \sum_{i=0}^t \underbrace{P_i}_{P_i} \log P_i$$

$$t = |V|$$

le chat $P(x_i | x_{i-1})$
.....

private d
public e_A, n_A

private
public (e_B, n_B)

A $\xrightarrow{\text{confidentialiteit}}$ B

M $\xrightarrow{\text{irresponsabiliteit}}$ signer

$$(S = M^{d_A} \bmod n_A)^{e_B} \bmod n_B$$

$$(M^e)^d$$

$$M^e = M \bmod n$$

$$(M^d)^e$$

$$x^n \rightarrow (x^2)^{n/2}$$

$$x^n \rightarrow x \cdot (x^2)^{n/2}$$

$$3713^{1518} \pmod{5837}$$

$$2^2 \pmod{3732}$$

$$3^4 = 2 \pmod{79} \quad 3^5 \pmod{79}$$

$$3^2 = 9$$

$$9^2 = 81$$

$x^y \pmod 3$
exp
int x, int y, int z)

if (y == 1)

return $x \% 3$;

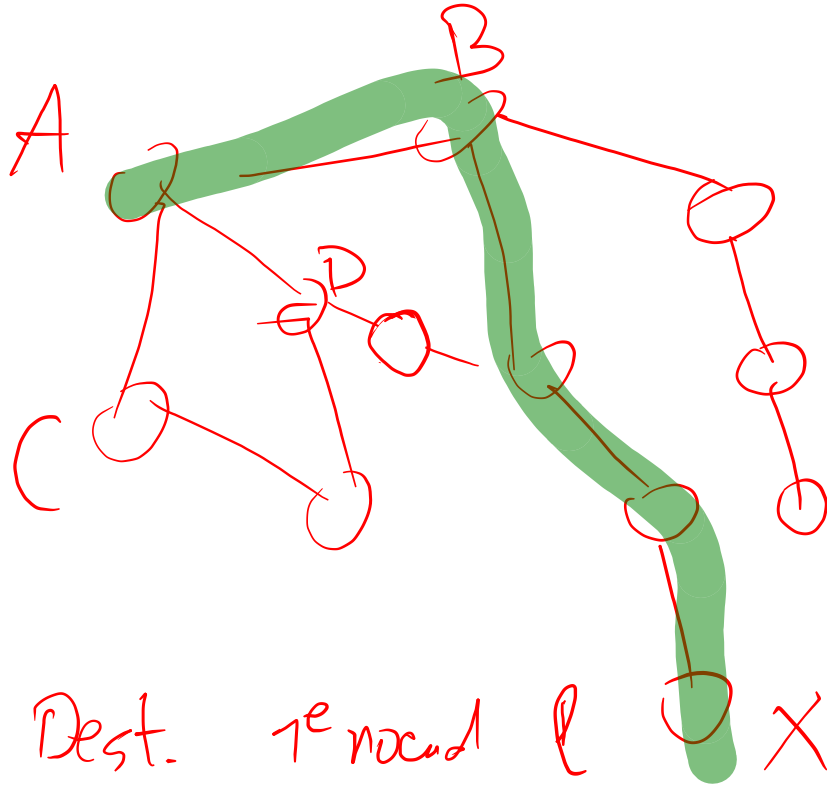
else if (y % 2 == 0)

return exp((x * x) % 3,

y / 2, z) % 3

else

return (x * exp((x * x) % 3,
y / 2, z)) % 3;



pour A

Dest.	1 ^{er} nœud	ℓ	X
X	B	4	