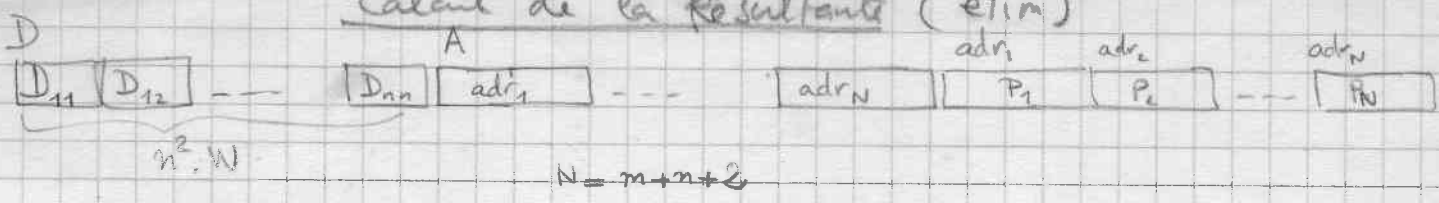
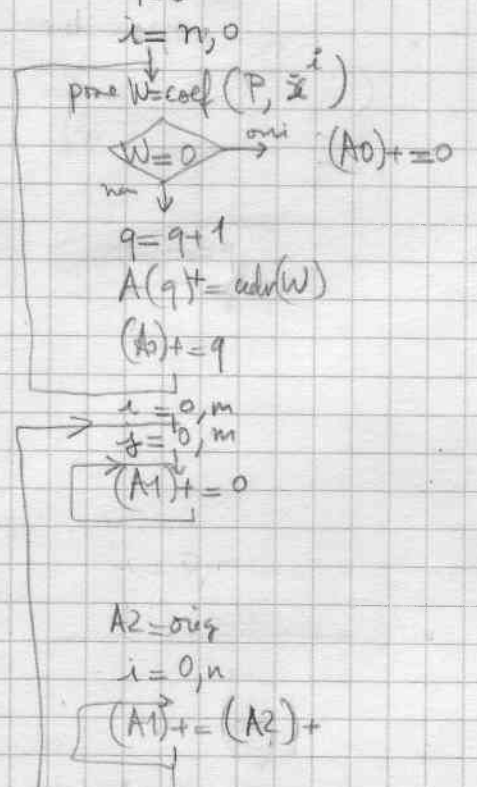


Calcul de la Résultante (elim)



D
A
n
A0 = libre pointe D
A1 = A0 + 2n² pointe A
orig = A1
A2 = A0 + 4(m+n) pointe P₁
q = 0



scalable m ↔ n

$$P(z) = a_0 z^n + a_1 z^{n-1} + \dots + a_n$$

$$Q(z) = z - \alpha$$

$$\begin{array}{cccc|c} z^n & z^{n-1} & & & 1 \\ a_0 & a_1 & a_2 & & a_n \\ 1 & -\alpha & & & \\ & 1 & -\alpha & & \\ & & & & 1-\alpha \end{array}$$

$$Q(z) = z^2 + pz + q$$

$$\begin{array}{cccc|cc} z^{n+1} & z^{n-2} & & & z & 1 \\ a_0 & a_1 & & & a_n & 0 \\ 0 & a_0 & & & a_{n-1} & a_n \\ 1 & p & q & & & \\ & 1 & p & q & & \\ & & 1 & p & q & \end{array}$$

Résultante de P et Q :

$$P(z) = a_0 z^n + a_1 z^{n-1} + \dots + a_n$$

$$Q(z) = b_0 z^m + b_1 z^{m-1} + \dots + a_m$$

$$\left(\begin{array}{cccc|cccc} a_0 & a_1 & \dots & a_n & 0 & 0 & & \\ 0 & a_0 & \dots & & a_n & 0 & & \\ \dots & & & & & & & \\ 0 & 0 & & a_0 & \dots & & & a_n \\ b_0 & b_1 & \dots & & b_m & 0 & 0 & 0 \\ 0 & b_0 & \dots & & & b_m & & \\ \dots & & & & & & & \\ 0 & & & & & & & b_0 \\ & & & & & & & b_m \end{array} \right) \begin{array}{l} \} m \text{ lignes} \\ \\ \\ \} n \text{ lignes} \end{array}$$