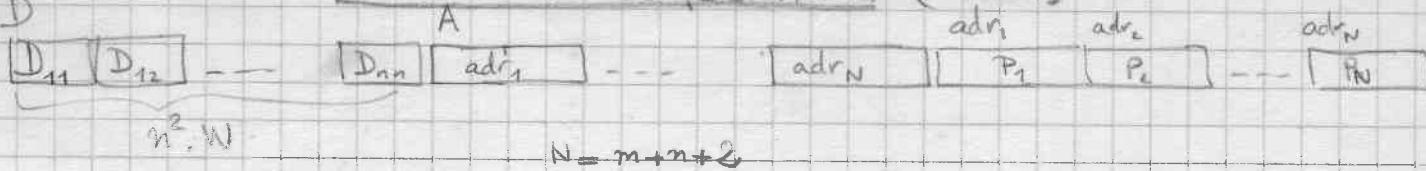


Calcul de la Résultante (élim)



D

A

n

$$AO = \text{libre} \quad \text{point D}$$

$$A_0 = AO + 2n^2 \quad \text{point A}$$

$$\text{orig} = M$$

$$A_6 = AO + 4(m+n) \quad \text{point } P_1$$

$$q = 0$$

$$i = n, 0$$

$$\text{pre } W = \text{coeff}(P, z^i)$$

$$\begin{array}{c} W = 0 \\ \text{orig} \end{array} \rightarrow (AO) += 0$$

$$n \downarrow$$

$$q = q + 1$$

$$A(q) += \text{adr}(W)$$

$$(AO) += q$$

$$\begin{array}{c} i = 0, m \\ j = 0, m \end{array} \rightarrow$$

$$(M) += 0$$

$$A_2 = \text{orig}$$

$$i = 0, n$$

$$(A1) += (A2) +$$

instable $m \leftrightarrow n$

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

$$Q(z) = \overline{z} - \alpha$$

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

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

$$\left| \begin{array}{ccccc} z^{n+1} & z^{n-2} & & & \\ z^n & z^{n-1} & & & \\ a_0 & a_1 & & & \\ 0 & a_0 & & & \\ 1 & p & q & & \\ 1 & p & q & & \\ 1 & p & q & & \\ \end{array} \right| \quad \left| \begin{array}{c} z & 1 \\ a_n & 0 \\ a_{n-1} & a_n \\ \end{array} \right|$$

Résultante de P et Q :

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

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

$$\left| \begin{array}{ccccccc} a_0 & a_1 & \dots & a_n & 0 & 0 \\ 0 & a_0 & \dots & a_n & 0 & & \\ \dots & & & & & & \\ 0 & 0 & a_0 & \dots & \dots & a_n & \\ b_0 & b_1 & \dots & b_m & 0 & 0 & 0 \\ 0 & b_0 & \dots & b_m & \dots & & \\ \hline & & & & b_0 & \dots & b_m \end{array} \right| \quad \left. \begin{array}{l} m \text{ lignes} \\ n \text{ lignes} \end{array} \right\}$$