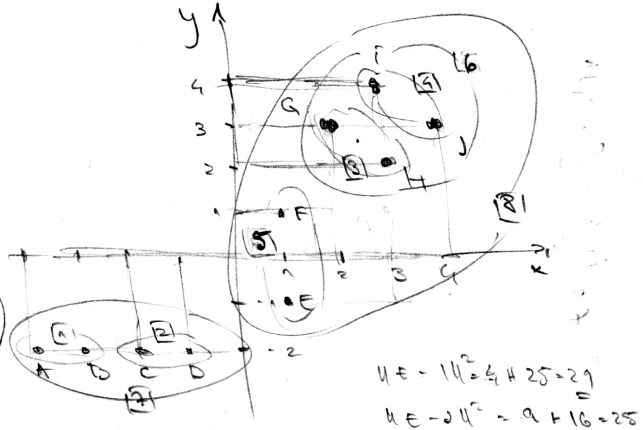
$$\Delta(X,Y) = \frac{u_X u_Y}{u_X + u_Y} \| \mu_X - \mu_Y \|^2$$

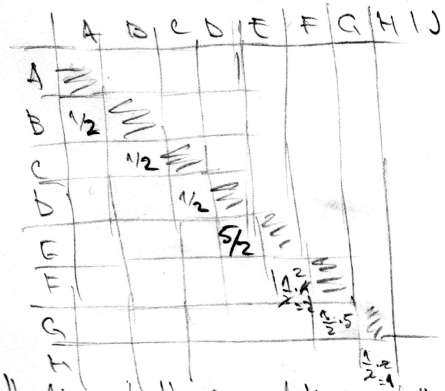
$$\mu_X = \frac{1}{u_X} \sum_{x_i \in X} x_i$$

$$\mu_Y = \frac{1}{u_Y} \sum_{y_i \in Y} y_i$$



$u_E = 11^2 = 4 + 25 = 29$

$u_E = 3^2 = 9 + 16 = 25$



Hier 1: $C_1 = \{A, B\}$

Hier 2: $C_2 = \{C, D\}$

Hier 3: $C_3 = \{G, H\}$

Hier 4: $C_4 = \{I, J\}$

Hier 5: $C_5 = \{G, H, I, J\}$

Hier 6: $C_6 = \{E, F\}$

Hier 7: $C_7 = \{A, B, C, D\}$

Hier 8: $C_8 = \{E, F, G, H, I, J\}$

Hier 9: $C_9 = \{A, \dots, J\}$

$\Delta(\{A,B\}, \{C\}) = \frac{2}{3} \cdot \left(\frac{3}{2}\right)^2 = \frac{3}{2} > 1$

$= \Delta(\{C\}, \{D\})$

$\Delta(\{A,B\}, \{C,D\}) = \frac{4}{4} \cdot 2^2 = 4$

$\Delta(\{G,H\}, \{I,J\}) = \frac{2}{3} \cdot \left(\frac{4}{2} + \frac{4}{2}\right) = \frac{2}{3} \cdot \frac{10}{4} = \frac{5}{3} > 1$

$\Delta(\{G,H\}, \{I,J\}) = \frac{4}{4} \cdot 2 = 2$

$\Delta(\{G,H,I,J\}, \{E,F\}) = \frac{4}{4} \cdot \left(\frac{25}{4} + 4\right) = 10\frac{1}{4} > 4$

$\Delta(\{G,H,I,J\}, \{F\}) = \frac{4}{5}\left(4+4\right) = \frac{32}{5} = 6\frac{2}{5} > 2 = \Delta(\{E\}, \{F\})$

$\Delta(\{C,D\}, \{E,F\}) = \frac{4}{5} \cdot \left(\frac{3}{2}\right)^2 + 4 = \frac{8}{5}\left[2^2 + 3^2\right]$

$\Delta(\{A,B,C,D\}, \{E,F\}) = \frac{8}{6}\left[\left(\frac{3}{2}\right)^2 + 4\right] = \frac{8}{6}\left[2^2 + 3^2\right]$

$\Delta(\{E,F\}, \{G,H,I,J\}) = \frac{8}{6}\left[2^2 + 3^2\right]$