$$X_1 = \begin{pmatrix} 111100100 \\ 011110100 \\ 000011100 \\ \vdots \\ 110011100 \\ 111011111 \end{pmatrix} \approx$$

Z_1

(0.4 1.3 -3.3 4.7) or "cluster" 1

$$X_2 = \begin{pmatrix} 000100100 \\ 011100111 \\ 000011100 \\ \vdots \\ 011011111 \\ 110011111 \end{pmatrix} \approx$$

Z_2

(1.1 -0.1 2.3 3.3) or "cluster" 2