## ASSOCIATIVE Memory Networks

Maximum Memory=> 0.15 x n The. of Noevortee.

HEEB Plube > - support
Wijad) = Wijan + xigj
Coopport

Imput vector ? [1,0,1,0] output vector + [1,0] 2+0=2 ω" = m" + x,g, = 十 1.( = 久 W19 = W2 + N, 42 = 0 + 0.0 = 0 $O + O \cdot I = 0$ Waz 0 + 0 .0 = 0

$$w_{31} = 0 + 1 \cdot 1 = 1$$

$$w_{32} = 0 + 3 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 1 = 0$$

$$w_{42} = 0 + 0 \cdot 0 = 0$$

$$w_{10} = 0$$

$$w_{21} = 0 + 0 \cdot 0 = 0$$

$$w_{21} = 0$$

$$w_{32} = 0 + 3 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 + 0 \cdot 0 = 0$$

$$w_{41} = 0 + 0 + 0 + 0 = 0$$

$$w_{41} = 0 + 0 + 0 + 0 = 0$$

$$w_{41} = 0 + 0 + 0 + 0 + 0 = 0$$

$$w_{41} = 0 + 0 + 0 + 0$$

\* Outer Product >

$$W = \sum_{i=0}^{n} S_{i}^{T}(P).t_{i}(P)$$