1. VECTORS

indexed from 1 (not 0) h-væstr is made up of if a is an n-vector, it has elements has n elements, or has a 512E of n. $2_1, 2_2, ..., 2_n$ aka entries, components, a = b if a and b have the same size and a, = b, , a, = b, , ..., or coefficients Example Vectors: 2 = bn $x = \begin{bmatrix} 1 \\ 2 \end{bmatrix} = \begin{bmatrix} 4 \\ 5 \\ 6 \end{bmatrix} = (-1, -2, 0)$ Since x = bn $x = \begin{bmatrix} 1 \\ 2 \end{bmatrix} = \begin{bmatrix} 4 \\ 5 \\ 6 \end{bmatrix} = (4, 5, 6, -1, -2, 0)$ Stacked Vector. * Some notational conventions are used to distinguish vectors from scalars, but nothing is standardized.

Slices are a subset of 1:2 is the index range

Consists of a land is a vector of all yeros

the rest are Os.

(1,0,0) This is a

[0] [0] Sparse vector.

is a vector of all yeros

is a vector of all ones.

VECTORS: OPERATIONS

