Arrays and Strings What is an array? - a collection of similar elements LD They have the same type -one dimension = vector -two-Do matrix 42 also known as an array of wectors -tensor o more dimensions - arrays are sorted - a [i] comes veror [10-13 in memory type name Ecount ] & 11st 3type [casnt] we at a second of all LD unitiaized is more empty sixts mcxJLJJa-12 matrix 47 Stores them in row matter order LD one row in memory rollowed by the next day 132 and 2 me mory rough n = 29 model - rows are laid out segrentially -D go back and for the matrix mun function! - arrays are not passed by rarest 40 Use call by refrence

PARITY OND STAINES - we don-+ want to copy in large larrays into the stack stack as a property arrays and pointer are similar 45 a pointer to element zero or the airay 20 memory location of a variable Size of \function = # Of bytes used Uja vaicale 18 OF SUL POLISE 200 C PO + 10 acod = addoess a acij = ati · size of lacoj 4D Pointers du tre muit a by SIZEDFIE /ASSISTED OF remember a matrix is an array of pointers String some some some -array of characters that end in 10' 45 char SEJ - 11 blab 11 Char 35 = 11 hello! -1> most common char SL3= 2'L' ... 3 in a nutshell, a string is an array or char itnot are terminated by a null char. when You do J=5, they point to the same thing in the memory but ris not a copy

Stromp= compares the strings together Strien() - rength or str 40 num of non-null char Str cpy() . make a copy & add a null at the end Strucmpc): make sure to add a chade so lou don's overflow