























## Pointers and Parameter Passing • Java and C pass a parameter "by value" • procedure/function gets a copy of the parameter, so changing the copy cannot change the original void addOne (int x) { x = x + 1; } int y = 3; addOne(y); •y is still = 3







## Arrays (4/7) • Array size n; want to access from 0 to n-1: int ar[10], i=0, sum = 0; while (i < 10) /\* sum = sum+ar[i]; i = i + 1; \*/ sum += ar[i++]; </pre>

![](_page_3_Figure_0.jpeg)

![](_page_3_Figure_1.jpeg)

![](_page_3_Figure_2.jpeg)

![](_page_3_Figure_3.jpeg)

![](_page_3_Figure_4.jpeg)

![](_page_3_Figure_5.jpeg)

![](_page_4_Figure_0.jpeg)

![](_page_4_Figure_1.jpeg)

![](_page_4_Figure_2.jpeg)

Н	ow many of the following are invalid?
Ι.	pointer + integer
II.	integer + pointer
111	pointer + pointer
IV	. pointer – integer
V.	integer – pointer
VI	. pointer – pointer
VI	I. compare pointer to pointer
VI	II. compare pointer to integer
IX	. compare pointer to 0
Х.	compare pointer to NULL

•	How many of the following are invalid		
I.	pointer + integer	ptr + 1	
П.	integer + pointer	1 + ptr	
III.	pointer + pointer	ptr + ptr	
IV.	pointer – integer	ptr - 1	
٧.	integer – pointer	1 - ptr	
VI.	pointer – pointer	ptr - ptr	
VII.	compare pointer to pointer	ptr1 == ptr2	
VIII.	compare pointer to integer	ptr == 1	
IX.	compare pointer to 0	ptr == NULL	
Х.	compare pointer to NULL	ptr == NULL	
Cal			

![](_page_4_Figure_5.jpeg)