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 inlab4.pdf

What is your name?
 What is your quest?
 What is your favorite color?

Yingqing Huang
 Get an A in this course!
 Black

Size of C++ data types

C++ Type	Size in bytes?	Max value? (base 10)	Zero is stored as (in hex)?	One (or 1.0) is stored as (in hex)?
int	4	$2^{31} - 1 = 2,147,483,647$	0x0	0x1
unsigned int	4	$2^{32} - 1 = 4,294,967,295$	0x0	0x1
float	4	$3.402823 * 10^{38}$ (approximate)	0x0	0x3f800000
double	8	$1.79769 * 10^{308}$ (approximate)	0x0	0x3ff0000000000000
char	1	127	Char '0' = 0x30	Char '1' = 0x31
bool	1	1	false = 0x00	true = 0x1
C++ Type	Size in bytes?	Max value? (base 10)	NULL is stored as?	
int*	8	$1.84467441 * 10^{19}$	0x0	
char*	8	$1.84467441 * 10^{19}$	0x0	
double*	8	$1.84467441 * 10^{19}$	0x0	

Primitive Arrays in C++

How does the compiler determine the address of `&(IntArray2D[i][j])`?

$\&(\text{IntArray}[0][0]) + 4 * (5i + j)$