CS 2150 In-lab 4 worksheet

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What is your name? Shahroz Imtiaz.

What is your quest? To complete this in-lab.

What is your favorite color? Black.

## Size of C++ data types

C++	Size	Max value?	Zero is stored as (in	One (or 1.0) is stored
Type	in	(base 10)	hex)?	as (in hex)?
71	bytes?	,	,	
int	4	2,147,483,647	0x00000000	0x00000001
unsigned	4	4,294,967,295	0x00000000	0x00000001
int				
float	4	$3.402823 * 10^{38}$	0x00000000	0x3f800000
double	8	1.797693 * 10 <sup>308</sup>	0x00000000000000000	0x3ff00000000000000
char	1	255	Char '0'= 0x30	Char '1'= $0x31$
bool	1	1	false = 0x00	true = 0x01
C++	Size	Max value?	NULL is stored as?	
Type	in	(base 16 (hexadecimal))		
	bytes?			
int*	8	0xFFFFFFFFFFFFFF	0x00000000000000000	
char*	8	0xFFFFFFFFFFFFF	0x00000000000000000	
double*	8	0xFFFFFFFFFFFFFF	0x00000000000000000	

## Primitive Arrays in C++

How does the compiler determine the address of &(IntArray2D[i][j])? Assume the array is defined as: int IntArray2D[6][5];

&(IntArray2D[i][j]) = (IntArray2D) + 4\*(i\*5 + j)