

Int Datatypes

Variable name	Range	Size (bytes)
int8_t	-128 to 127	1
uint8_t	0 to 255	1
int16_t	-32768 to 32767	2
uint16_t	0 to 65535	2
int32_t	-2147483648 to 2147483647	4
uint32_t	0 to 4294967295	4
int64_t	-9.2×10^{18} to 9.2×10^{18}	8
uint64_t	0 to 1.8×10^{19}	8

Pointers

&	Gets RAM adress of Variable(to save into pointer)
*	Dereferences pointer(returns it's content) or defines a variable to be a pointer

Float datatypes

Type name	Size (bytes)	Precision	Range
float	4	~6-7 digits	$\sim 1.2 \times 10^{-38}$ to $\sim 3.4 \times 10^{38}$
long	8	~15-16 digits	$\sim 2.3 \times 10^{-308}$ to $\sim 1.7 \times 10^{308}$

Bitwise Operators

&	Bitwise AND
	Bitwise OR
^	Bitwise XOR
~	Bitwise NOT
<<	Shift left (adding zeroes to the right)
>>	Shift right (adding zeroes to the left)



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