

Primitive Data Types

Class

Computer Science

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Integers
Floating Point Numbers
Boolean Expressions

Integers

Byte \rightarrow 8 bits

Shortest type of data

Short → 16 bits

Int \rightarrow 32 bits

Long \rightarrow 64 bits (25L, 303928289L, etc.)

Char \rightarrow 16 bits ('A', 'B', etc.)

Floating Point Numbers

Float \rightarrow decimal (2.5F, 3.222F, etc.)

Double → also decimals

Boolean Expressions

Boolean \rightarrow 8 bits

· Only uses the last bit

Primitive Data Types 1

If you exceed the limit of a data type, it will fold back over to the other side.

• Limit of a Data Type: [-2^x, 2^x - 1]

 $\circ x \rightarrow \#$ of bits

Primitive Data Types 2