Primitive Data Types

Type	64-bit Size	Description	Example
bool	1 bit	Boolean (binary) number, either true or false.	bool x = 0; bool y = false
char	1 byte	Signed integer from -128 to 127 or a character	char x = 'c'; char y = 100;
short	2 bytes	Smaller signed integer from $-(2^{15})$ to $(2^{15} - 1)$	short x = 20;
int	4 bytes	Signed integer from $-(2^{31})$ to $(2^{31} - 1)$	int x = -5;
long	8 bytes	Bigger signed integer from $-(2^{63})$ to $(2^{63} - 1)$	long x = 200;
float	4 bytes	Floating-point number which allows exponential and non-integer form.	float x = 1.4932429; float y = 4e200;
double	8 bytes	Double-precision floating-point number (more decimal places).	double x = 1.4932429543543;