|  |  |  |
| --- | --- | --- |
| Data Types | Memory Size | Range |
| byte | 1 byte or 8 bits | 0 to 255 |
| sbyte | 1 byte or 8 bits | -128 to 127 |
| char | 1 byte or 8 bits | -128 to 127 |
| signed char | 1 byte or 8 bits | -128 to 127 |
| unsigned char | 1 byte or 8 bits | 0 to 127 |
| short | 2 byte or 16 bits | -32,768 to 32,767 |
| signed short | 2 byte or 16 bits | -32,768 to 32,767 |
| unsigned short | 2 byte or 16 bits | 0 to 65,535 |
| int | 4 byte or 32 bits | -2,147,483,648 to 2,147,483,647 |
| signed int | 4 byte or 32 bits | -2,147,483,648 to 2,147,483,647 |
| unsigned int | 4 byte or 32 bits | 0 to 4,294,967,295 |
| float | 4 byte or 32 bits | 1.5 \* 10-45 - 3.4 \* 1038 |
| long | 8 byte or 64 bits | -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 |
| signed long | 8 byte or 64 bits | -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 |
| unsigned long | 8 byte or 64 bits | 0 - 18,446,744,073,709,551,615 |
| double | 8 byte or 64 bits | 5.0 \* 10-324 - 1.7 \* 10308 |
| decimal | 16 byte or 128 bits | ~-7.9 \* 10-28 - 7.9 \* 1028 |