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| **Integer variables** | | | |
| Data type | Bits | printf/scanf parameter | Possible Value |
| int | 32 | %d | -2147483648 ~ 2147483647 |
| short | 16 | %hd | -32768 ~ 32767 |
| long | 32 | %ld | -2147483648 ~ 2147483647 |
| long long | 64 | %lld | -9223372036854775808 ~ 9223372036854775807 |
| unsigned int | 32 | %u | 0 ~ 4294967295 |
| unsigned short | 16 | %hu | 0 ~ 65535 |
| unsigned long | 32 | %lu | 0 ~ 4294967295 |
| unsigned long long | 64 | %llu | 0 ~ 18446744073703551615 |

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| **Floating-point variables** | | | |
| Data type | Bits | printf/scanf parameter | Possible Value |
| float | 32 | %f | 1.2E-38~ 3.4E+38 |
| double | 64 | %f for printf; %lf for scanf | 2.3E-308~ 1.7E+308 |
| long double | 80 | %Lf | 3.4E-4932~ 1.1E+4932 |

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| --- | --- | --- | --- |
| **Character** | | | |
| Data type | Bits | printf/scanf parameter | Possible Value |
| char | 8 | %c , %s(string) | -128 ~ 127 |
| unsigned char | 8 | %c | 0 ~ 255 |