

byte: $\frac{-128 \text{ to } 127}{}$

① byte a = 10;
int n;

✓ n = a;

③ int n = 128;
byte a;
a = n; ✗
a = (byte)n;
-128

② int n = 10;

byte a;

✗ a = n;

error: lossy conv from int to byte

✓ a = (byte)n;

10 ← now a will store 10

Short:- $-32768 \text{ to } 32767$

① short s = 10;
int n;

✓ n = s;

② int n = 10;

short s;

✗ s = n;

error: lossy conv from
int to short

③ int n = 32768;
short s;

s = n; ✗

✓ s = (short)n;

-32768

✓ s = (short)n;

10

int : -2147483648

To

2147483647

long: -9223372036854775808

To

9223372036854775807

a. int a=10; long b; ✓ b=a;	b. long b=10; int a; ✗ a=b; <u>lossy conv</u>	c. long a= 2147483648 ^X ; int b; b=a; ↑ ?
	✓ a=(int)b;	d. long a=2147483648L; int b; ✗ b=a; b=(int)a; -2147483648 ↑ suffix decl.

a. int n;
n = 2147483648; X
too large

b. int n;
n = (int)2147483648; X
too large

c. int n;
n = 2147483648L; X
lossy conv

d. int n;
✓ n = (int)2147483648L;
(-2147483648)

e. float n;
n = 2147483648; X
too large

f. float n;
✓ n = 2147483648L;

a. double a = 1.7;

float b;

X b = a;

lossy conv

✓ b = (float)a;

b. float b = 1.7; X

double a;

a = b;

b. float b = 1.7F;
double c; 1.7f;

✓ c = b;

$$\text{float: } -3.4 \times 10^{38}$$

$$\tau_c$$

$$3.4 \times 10^{38}$$

$$\text{double: } -1.7 \times 10^{308}$$

$$\tau_c$$

$$1.7 \times 10^{308}$$

Batch code: scajb8