

Initializing declaration

Form of initializing declaration, a combination of a declaration and an assignment of a value to it.

`<type> <variable>= <expression>;`

Equivalent to

`<type> <variable>;
<variable>= <expression>;`

Instead of

`int c;
c= 25;`

write

`int c= 25;`

Variable and expression types must match

<variable>= <expression>;

e.g. both **boolean**, or both **String**

byte	$-2^7 .. 2^7 - 1$	8 bits	-128 .. 127	narrower
short	$-2^{15} .. 2^{15} - 1$	16 bits		
int	$-2^{31} .. 2^{31} - 1$	32 bits		
long	$-2^{63} .. 2^{63} - 1$	64 bits		
float	32-bit real numbers			
double	64-bit real numbers			wider

<variable>= <expression>;

numeric type same or narrower type



Assigning a wider-type value to a narrower-type variable may lose information.

How can 6000 be stored in a byte variable?