

12/6/22

Stick to A-Z, a-z, 0-9 & _

Advice

You can declare multiple variables on same line, but don't.

3.4.2 `int i, j;` // don't do this, harder to read.

Compiler error if you attempt to use an uninitialized variable.

Declaration

`int x;` ← uninitialized

Initialization

`x = 42;` ← initialized

`int y = 100;` ← declaration & initialization combined.

Declarations can be put anywhere, but best practice is to put them as closely as possible to first use.

var

var → when compiler can deduce type

`int z = 99;`

`var z = 99;`

declarations

definitions

In Java declarations are not separate from definitions.

3.4.3

Constants

final to declare constants. const is not used, but is a reserved word.
← can assign once.

use uppercase name (convention)

`final int WIDTH = 10;` called

usually declared at class level: class constants ⇒ static final

Enums

3.4.4

enum types, for restricted sets of values (named values)

`enum Size { SMALL, MEDIUM, LARGE }`

`Size s = Size.SMALL;`

NULL enum vars

variables for enums can hold null.

Projects: - see what the compiler error looks like if you try to use an uninitialized variable.

- using it in scope

- passing to a function

- returning it from a function.

- try casting an enum variable to int. Does it work? If so, do you need an explicit cast?