

Not on Test:

- String methods
length()
substring()
- class stuff (hierarchy, inheritance)
- mixed expressions
(int, double, boolean combined)

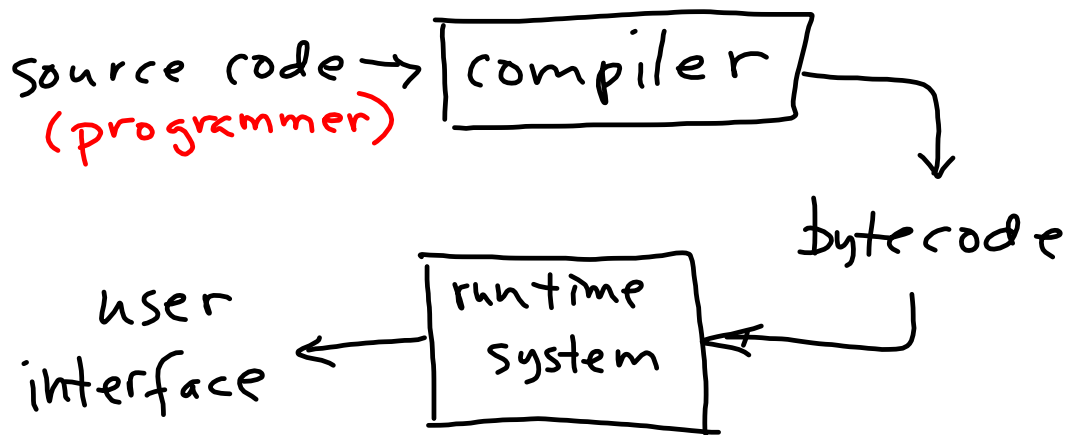
algorithm: recipe; detailed instructions for carrying out a task

extendible software (B Meyer handout)

robust software (B. Meyer)

embedded software

Java:



declaration (≠ initialization)
of int, double, boolean
variables (instance var.
or local)

declare an instance variable of
type boolean named
isGreen:

```
private boolean isGreen;
```

↑

by convention for instance variables
declare a local variable of
type double named
crunchiness and
initialized to 3.2

```
double crunchiness = 3.2;
```

declare an instance variable
of type int named
numStudents and initialize
to 50

```
private int numStudents = 50;
```

declare a local variable of type
"reference to String object"
named title and initialized
to "War_and_Peace"

```
String title = new String  
("War_and_Peace");
```

declare an instance variable
of type "reference to String
object", named brotherInLaw

```
private String brotherInLaw;
```

headers - fill-in-the-blank -
for methods

```
private ①boolean ②myMethod  
      ③(int i)
```

complete header above for
method myMethod, which
returns a boolean
value, after taking
an int as input

```
public void setTotal (  
      int i, boolean b)
```

header for method named
setTotal, which returns
no value, and takes
an int named i, and a
boolean named b as
inputs

increment k: k++
 decrement m: m--

Exercise #4 on p. 100
 with some other input -
 show work

names: valid?
 (variables or methods)

GetLost

no!
 (convention)

getLøst

ok.

getL&st

no!
 (rule)

int division
XC: % operator

syntax: rules of Java
(grammar)

semantics: what your code does
(novel)