

Java Genesis Chapter 3

Quick Quiz

Question 1

Evaluate each of the following Java expressions and state its type.

- (a) $3+7/2$
- (b) $(3+7)/2$
- (c) $3+7\%2$
- (d) $3*7/2$
- (e) $3.0*7/2$
- (f) `Math.abs(3%2-4/2)`
- (g) `Math.max(7, 3.0)`
- (h) `Math.sqrt((int)4.73)`
- (i) `(int)Math.random()+7/(double)2`
- (j) `""+3+7/2`
- (k) `3+7/2+""`
- (l) `"Hello World".charAt(6)`
- (m) `"3+7/2".length()`

Question 2

What is printed in the Output window by each of the following Java fragments?

- (a)

```
int a = 0;
for (int i=0; i<=2; i++) a = a + i*i*i;
System.out.print(a);
```

- (b)

```
int b = 0;
for (int i=1; i<=4; i=i+2) {
    b = b + i;
    System.out.print(b);
}
```
- (c)

```
int c = 0;
for (int i=3; i>1; i=i-1) {
    int x = 0;
    x = x + i;
    c = x;
}
System.out.print(c);
```
- (d)

```
String d = "";
for (int i=1; i!=6; i++) d = d + i;
System.out.print(d);
```
- (e)

```
double e = 2;
for (int i=1; i==3; i++) e = e * i;
System.out.print(e);
```
- (f)

```
String f = "Java is funny";
System.out.print('J');
for (int i=0; f.charAt(i)!='n'; i++)
    System.out.print(f.charAt(i+1));
```