

Java

while loop worksheet #4

Name –

Period -

Trace the following loops with columns for each variable and circling the last value. Show the output in the rectangles. Write "compile error", "runtime error" or "infinite loop" where appropriate. The ++ operator adds one, the -- operator subtracts one and the % operator means modulus (like Mod in VB). The ! operator means Not, the != means "not equal to", and the == operator means "equal to". Note that these code segments do not necessarily use good style and follow our Coding Standards.

1.
`int num = 0;`

`while (num < 3)`
`{`
 `System.out.print(num);`
 `num++;`
`}`

num
0
1
2

0
1
2

2.
`int num = 0;`

`while (num < 3)`
`{`
 `num++;`
 `System.out.print(num);`
`}`

num
1
2
3

1
2
3

3.
`int num = 3;`

`while (num > 0);`
`{`
 `num--;`
 `System.out.print(num);`
`}`

will not run, the while loop ends with a ;

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4.
`int num = 3;`

`while (num > 0)`
 `System.out.print(num);`
 `num--;`

num

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5.
`int num = 3;`

`while (num > 0)`
 `System.out.print(num); num--;`

num

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