

[< hasPennies](#)[Main Page](#) → [Problems](#) → **Solve a Problem**[zuneBug >](#)

✅ BJP5 Self-Check 5.20: whileLoopMystery3

Language/Type: Java [if/else](#) [mystery](#) [while](#) [loops](#)

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Given the following method:

```
public static int mystery(int x, int y) {
    while (x != 0 && y != 0) {
        if (x < y) {
            y = y - x;
        } else {
            x = x - y;
        }
    }
    return x + y;
}
```

Write the value returned by each of the following calls.

mystery(3, 3)	<input type="text" value="3"/>
mystery(5, 3)	<input type="text" value="1"/>
mystery(2, 6)	<input type="text" value="2"/>
mystery(12, 18)	<input type="text" value="6"/>
mystery(30, 75)	<input type="text" value="15"/>

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#	question	your answer	result
1	mystery(3, 3)	3	✅ pass
2	mystery(5, 3)	1	✅ pass

3	mystery(2, 6)	2	✓ pass
4	mystery(12, 18)	6	✓ pass
5	mystery(30, 75)	15	✓ pass

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