

Name:

Aufgabe 1

Finde den Fehler und korrigiere ihn:

- a) `x = 3`
- b) `fun square = x * x`
- c) `fun square(Int): Int * Int`
- d) `fun triple(x: Int): Int = return 3 * x`
- e) `fun sum(x: Int): Int = a + b + c`
- `val sum_1_2 = sum(1, 2)`
- f) `fun createVarA(x: Int): Int {`
 `val a = 5`
 `return x`
}
- `val twoTimesA = 2 * a`

Aufgabe 2

Gib an welche globalen Variablen am Ende der Ausführung definiert sind und welche Werte diese haben

- a) `val x = 7`
- `val y = 2 * x`
- b) `fun cube(n: Int): Int = n * n * n`
- `val x = 4`
- `val y = 3 * cube(x)`
- c) `fun cube(x: Int): Int = x * x * x`
- `val x = 4`
- `val y = 3 * cube(2)`
- d) `fun powerFour(x: Int): Int {`
 `val xPowerTwo = x * x`
 `return xPowerTwo * xPowerTwo`
}
- `val ThreePowerFour = powerFour(3)`
- e) `val x = 2`
- `val xPowerTwo = x * x`

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```
fun powerFour(x: Int): Int {  
    val xPowerTwo = x * x  
    return xPowerTwo * xPowerTwo  
}  
  
val threePowerFour = powerFour(3)  
f) fun square(x: Int) = x * x  
  
fun sumSquares(x: Int, y: Int) : Int {  
    xSquared = square(x)  
    ySquared = square(y)  
    return xSquared + ySquared  
}  
  
val x = sumSquares(2, 3)
```