

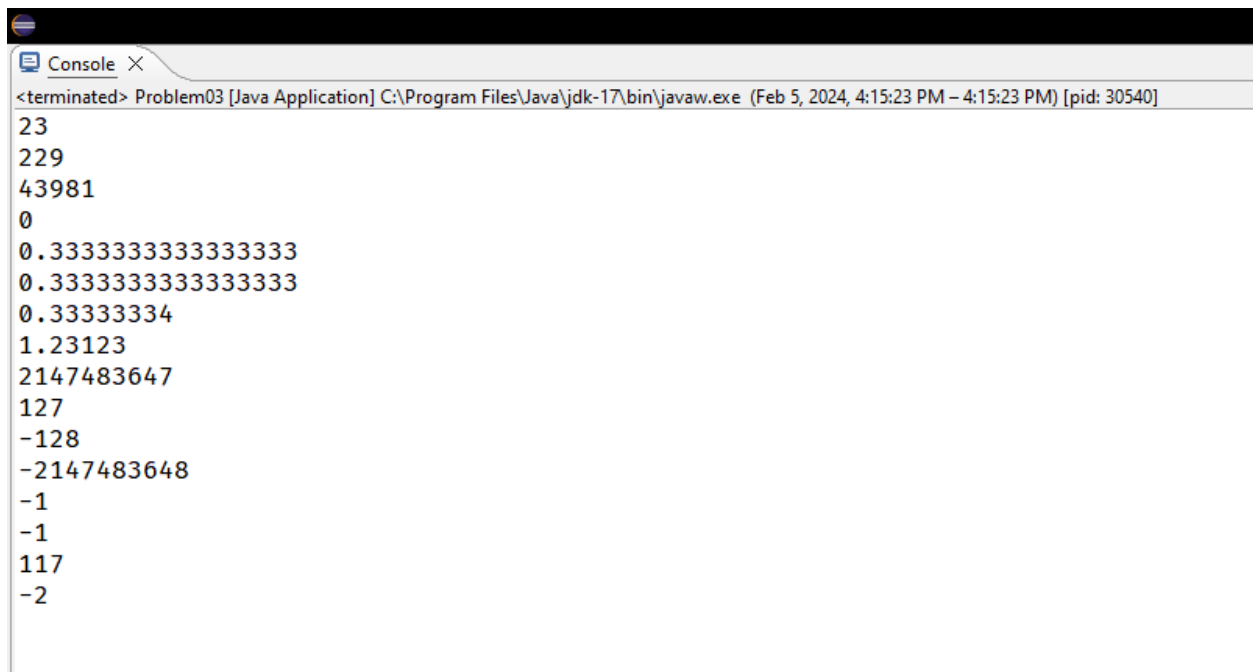
```
Console X
<terminated> Problem01 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:13:58 PM – 4:14:00 PM) [pid: 32732]
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
    Syntax error, insert ";" to complete BlockStatements

    at prob01.Problem01.main(Problem01.java:7)
```

```
Console X
<terminated> Problem01 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:14:22 PM – 4:14:22 PM) [pid: 6644]
Exception in thread "main" java.lang.ArithmeticException: / by zero
    at prob01.Problem01.main(Problem01.java:9)
```

```
Console X
<terminated> Problem01 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:14:39 PM – 4:14:40 PM) [pid: 26568]
2^2 = 0
```

```
Console X
<terminated> Problem02 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:15:05 PM – 4:15:05 PM) [pid: 31412]
a = 0.0
b = 0.0
c = 0.0
d = 0.0
```

A screenshot of a Java IDE's console window. The window has a title bar with a small icon and the text "Console X". Below the title bar is a status bar that reads "<terminated> Problem03 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:15:23 PM - 4:15:23 PM) [pid: 30540]". The main area of the window contains a list of numbers printed on separate lines: 23, 229, 43981, 0, 0.3333333333333333, 0.3333333333333333, 0.33333334, 1.23123, 2147483647, 127, -128, -2147483648, -1, -1, 117, and -2.

```
<terminated> Problem03 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:15:23 PM - 4:15:23 PM) [pid: 30540]
23
229
43981
0
0.3333333333333333
0.3333333333333333
0.33333334
1.23123
2147483647
127
-128
-2147483648
-1
-1
117
-2
```

```
Console X
Problem04 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:07:36 PM) [pid: 27508]
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

1

Linear Equations

ax+by=e
cx+dy=f

Enter value for a: 1
Enter value for b: 2
Enter value for e: 3
Enter value for c: 4
Enter value for d: 5
Enter value for f: 6

1.0x + 2.0y = 3.0
4.0x + 5.0y = 6.0
Solution: (-1.0,2.0)

Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT
```

```

Problem04 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:08:19 PM) [pid: 23792]
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

2
How many Monitor?
12
How many Keyboard?
34
How many Mouse?
43
How many CPU?
21
How many RAM?
41
How many SSD?
23
*****
*      Item      * Unit Price *   Quantity   *      Price      *
*****
*   Monitor   *   $100.00 *     12     *   $1200.00   *
*  Keyboard  *   $50.00 *     34     *   $1700.00   *
*   Mouse    *   $35.00 *     43     *   $1505.00   *
*    CPU     *   $500.00 *     21     *   $10500.00  *
*    RAM     *   $400.00 *     41     *   $16400.00  *
*    SSD     *   $200.00 *     23     *   $4600.00   *
*****
*                               * Subtotal *   $35905.00 *
*                               * Sales Tax *   $2585.16 *
*****
*                               *   Total   *   $38490.16 *
*****
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

```

```
Console X
Problem04 [Java Application] [pid: 380]
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

3
In 75 miles, continue straight.
In 53 miles, continue straight.
In 54 miles, continue straight.
In 13 miles, continue straight.
In 38 miles, continue straight.
In 25 miles, continue straight.
In 79 miles, continue straight.
In 73 miles, continue straight.
In 88 miles, continue straight.
In 23 miles, continue straight.
In 37 miles, continue straight.
In 84 miles, continue straight.
In 12 miles, continue straight.
In 44 miles, continue straight.
In 39 miles, continue straight.
In 19 miles, continue straight.
In 49 miles, continue straight.
In 84 miles, continue straight.
In 92 miles, continue straight.
In 50 miles, take a right turn.
You have arrived at your destination.
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT
```

```
Console X
Problem04 [Java Application] [pid: 380]

In 39 miles, continue straight.
In 19 miles, continue straight.
In 49 miles, continue straight.
In 84 miles, continue straight.
In 92 miles, continue straight.
In 50 miles, take a right turn.
You have arrived at your destination.
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

3
In 23 miles, continue straight.
In 14 miles, continue straight.
In 60 miles, take a left turn.
In 77 miles, continue straight.
In 86 miles, continue straight.
In 76 miles, continue straight.
In 89 miles, continue straight.
In 67 miles, continue straight.
In 13 miles, continue straight.
In 24 miles, continue straight.
In 19 miles, continue straight.
In 12 miles, continue straight.
In 48 miles, continue straight.
In 45 miles, continue straight.
In 74 miles, continue straight.
In 82 miles, continue straight.
In 55 miles, continue straight.
In 25 miles, continue straight.
In 43 miles, continue straight.
In 54 miles, continue straight.
In 17 miles, continue straight.
You have arrived at your destination.
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT
```

```
Console X
Problem04 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:12:01 PM) [pid: 24060]
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

4
Enter a number n to caclulate square, and cube roots of:
23
√(1) = 1.0000    ∛(1) = 1.0000
√(2) = 1.4142    ∛(2) = 1.2599
√(3) = 1.7321    ∛(3) = 1.4422
√(4) = 2.0000    ∛(4) = 1.5874
√(5) = 2.2361    ∛(5) = 1.7100
√(6) = 2.4495    ∛(6) = 1.8171
√(7) = 2.6458    ∛(7) = 1.9129
√(8) = 2.8284    ∛(8) = 2.0000
√(9) = 3.0000    ∛(9) = 2.0801
√(10) = 3.1623   ∛(10) = 2.1544
√(11) = 3.3166   ∛(11) = 2.2240
√(12) = 3.4641   ∛(12) = 2.2894
√(13) = 3.6056   ∛(13) = 2.3513
√(14) = 3.7417   ∛(14) = 2.4101
√(15) = 3.8730   ∛(15) = 2.4662
√(16) = 4.0000   ∛(16) = 2.5198
√(17) = 4.1231   ∛(17) = 2.5713
√(18) = 4.2426   ∛(18) = 2.6207
√(19) = 4.3589   ∛(19) = 2.6684
√(20) = 4.4721   ∛(20) = 2.7144
√(21) = 4.5826   ∛(21) = 2.7589
√(22) = 4.6904   ∛(22) = 2.8020
√(23) = 4.7958   ∛(23) = 2.8439
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT
```

```
Console X
<terminated> Problem04 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:12:22 PM - 4:12:23 PM) [pid: 1700]
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

5
Goodbye!
```

```
Console X
Problem04 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (Feb 5, 2024, 4:12:32 PM) [pid: 29112]
Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT

-1
Input -1 is not valid!

Menu items

Press 1 for Linear equations
Press 2 for the shopping bill
Press 3 for directions
Press 4 for square root and cube root of n numbers
Press 5 for QUIT
```