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BSCS 3 - 2
2021-12371
DBTK

1. Simulate the expressions using your code (hand written).

Program 1:

$a = 7, d = 4, f = 1$

$m = (a/2) + (1-d) * (2\%f)$

play(m)

Simulation:

$a = 7$

$d = 4$

$f = 1$

$m = (a/2) + (1-d) * (2\%f)$

$m = (7/2) + (1-4) * (2\%1)$

$m = 3.5 + (1-4) * (2\%1)$

$m = 3.5 + -3 * (2\%1)$

$m = 3.5 + -3 * 0$

$m = 3.5 + 0$

$m = 3.5$

Program 2:

$c = 3, f = 6, g = 10$

$r = 6/3 + c * 9\%8 - f + g * 7 - 1$

play(r)

Simulation:

$c = 3$

$f = 6$

$g = 10$

$r = 6/3 + c * 9\%8 - f + g * 7 - 1$

$r = 6/3 + 3 * 9\%8 - 6 + 10 * 7 - 1$

$r = 2 + 3 * 9\%8 - 6 + 10 * 7 - 1$

$r = 2 + 27\%8 - 6 + 10 * 7 - 1$

$r = 2 + 3 - 6 + 10 * 7 - 1$

$r = 2 + 3 - 6 + 70 - 1$

$r = 5 - 6 + 70 - 1$

$r = -1 + 70 - 1$

$r = 69 - 1$

$r = 68$

Program 3:

$b = 3, c = 1, e = 8$

$g = (7+b)/(c*10) + (e-8)$

play(g)

Simulation:

$b = 3$

$c = 1$

$e = 8$

$g = (7+b)/(c*10) + (e-8)$

$g = (7+3)/(1*10) + (8-8)$

$g = 10/(1*10) + (8-8)$

$g = 10/10 + (8-8)$

$g = 10/10 + 0$

$g = 1 + 0$

$g = 1$

2. Run your compiler and display the output to validate your simulation.

Program 1:

```
Terminal
3.5
```

Program 2:

```
Terminal
68.0
```

Program 3:

```
Terminal
1.0
```

3. Submit the screenshot of your code.

Program 1:

```
Kiddos [Lexical] [Syntax] [Semantic]
1 a = 7, d = 4, f = 1
2 m = (a / 2) + (1 - d) * (2 % f)
3 play(m)
```

Program 2:

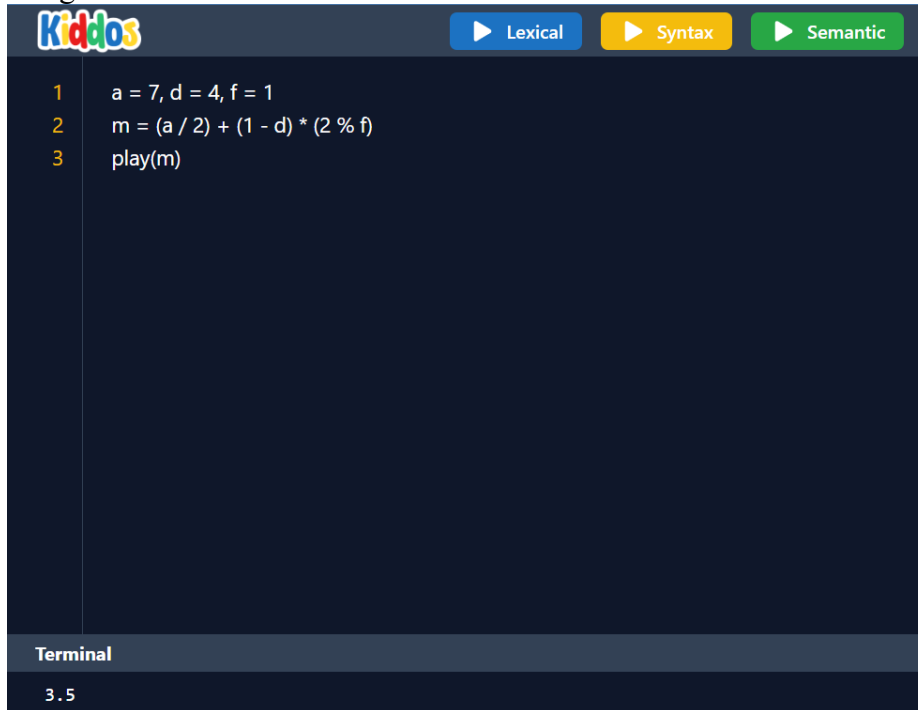
```
Kiddos [Lexical] [Syntax] [Semantic]
1 c = 3, f = 6, g = 10
2 r = 6 / 3 + c * 9 % 8 - f + g * 7 - 1
3 play(r)
```

Program 3:

```
Kiddos [Lexical] [Syntax] [Semantic]
1 b = 3, c = 1, e = 8
2 g = (7 + b) / (c * 10) + (e - 8)
3 play(g)
```

4. Submit the screenshot of your output after running your compiler.

Program 1:



Kiddos

Lexical Syntax Semantic

```
1 a = 7, d = 4, f = 1
2 m = (a / 2) + (1 - d) * (2 % f)
3 play(m)
```

Terminal

3.5

Program 2:



Kiddos

Lexical Syntax Semantic

```
1 c = 3, f = 6, g = 10
2 r = 6 / 3 + c * 9 % 8 - f + g * 7 - 1
3 play(r)
```

Terminal

68.0

Program 3:

