

ASSIGNMENT PART 1: PRACTICE BY SOLVING

Assume `int x = 8; int y = 5; int a = 10; int b = 3;`

`int num = 12 / 7;` 1

`int num = 3 / 9;` 0

`double d = 1 / 2;` 0.0

`int num = 100 / 6.0;`

16.6
ERROR
6.0 | 100
6
40
36

`int lol = x / b;` 2

2.5
40. | 100
80
200

`double d = 100 / 40.0` 2.5

`int num = 0 / 5;` 0

`double dd = (double) -4 / 8;` -0.5

-5
8 | -4.0

`double bitty = 30.0 / 12;` 2.5

2.5
12 | 30.0
24
6.0

`int f = (int)(7.0 / b);` 2

2.3
3 | 7.0
6
1.0

double division first. then cast.

`int g = (int) 7.0 / a;` 0

10 | 7

`int g = 7.0 / (int) 3.0;` ERROR

2.3
3 | 7.0
6
1.0

64 bits ERROR

`double g = (double)(10 / 7);` 0.0

7 | 10

int div. → stored 0.0

`int num = a / b;` 3

3 | 10
9

`int btw = y / (double) b;` ERROR

1.6
64 bits cannot store into 32
3 | 5.0
3
2.0