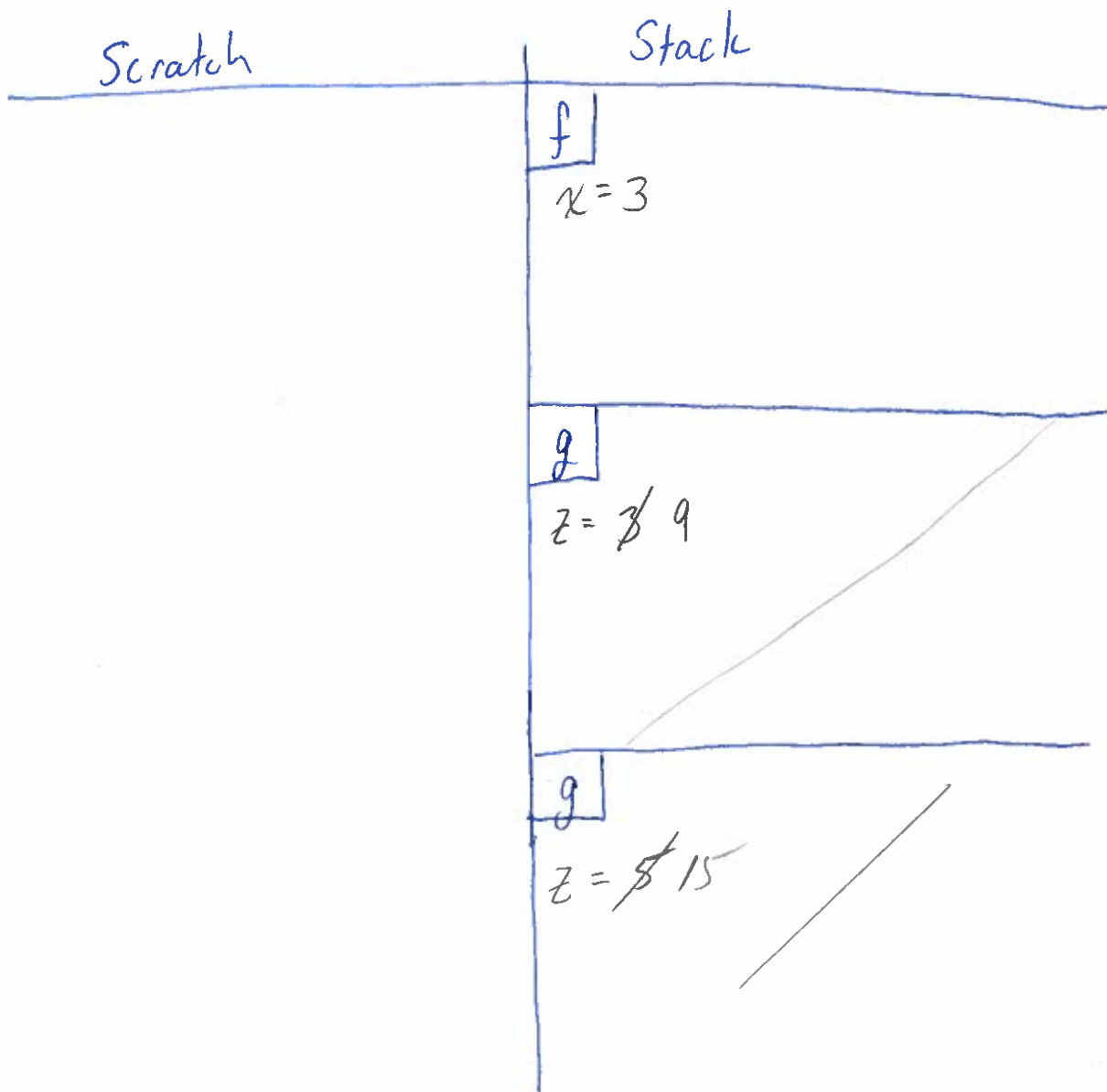


Function Stack Tracing

Solutions to the First Stack Tracing Problems

The code is in the .py file for Today

1)



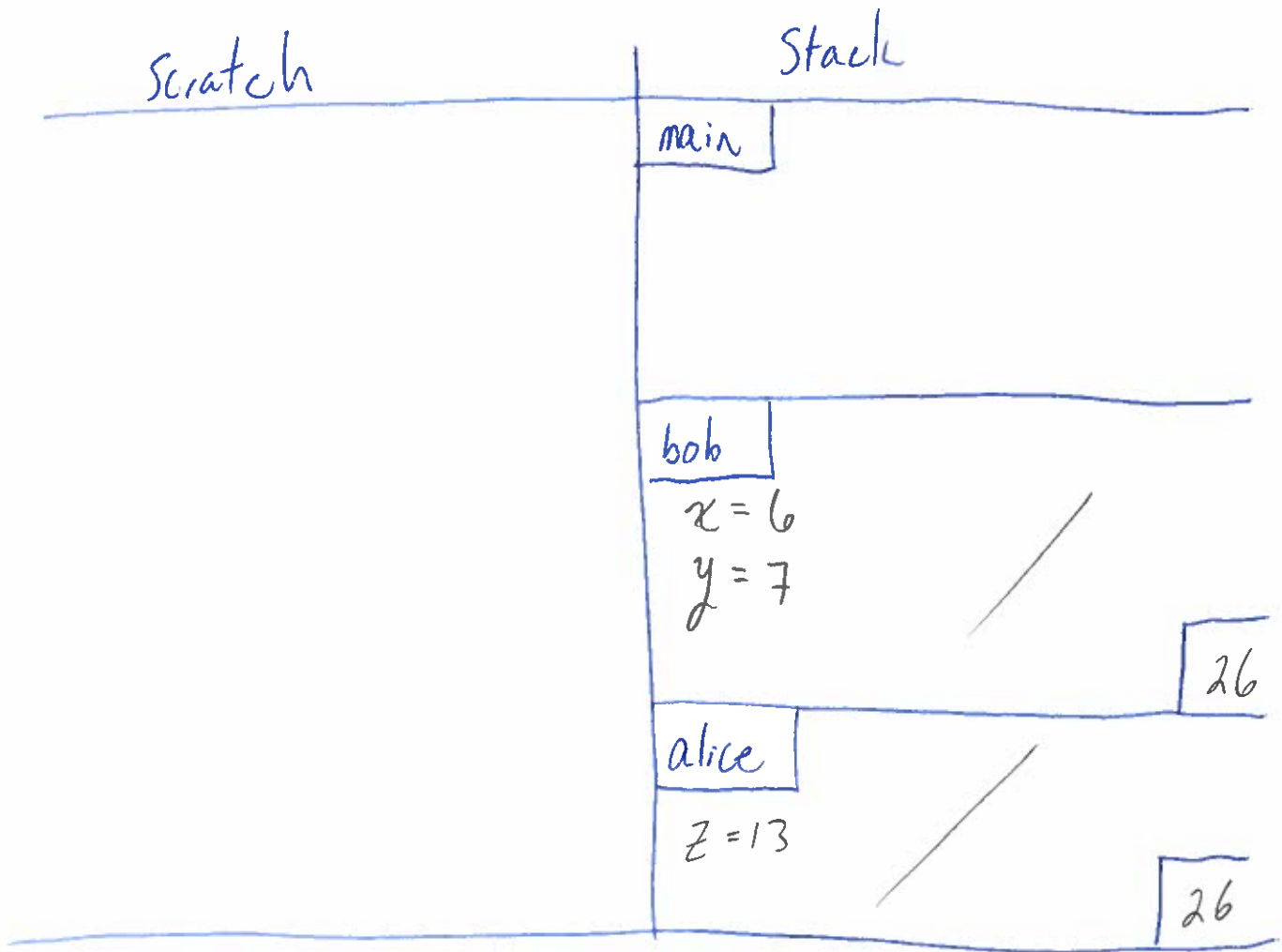
Printed Output

9

15

3

2)



Printed output

26

2.5)

Scratch

Stack

alice(8) + alice(-2)
16 + 8

main

bob

x = 8

y = -2

24

alice

z = 8

16

alice

z = -2

8

Printed output

24

3)

Scratch

Stack

main 3

x = 5

bbb

x = 7
y = 2

5

aaa

x = 5
s = 'hi'
z = ~~7~~ 28

28

aaa

x = 4
s = 'abcd'
z = ~~7~~ 10

10

bbb

x = 3
y = 14

4

Printed Output

I do not like the number 5.

28

My string is abcd and my number is 4.

10

4) Scratch

Stack

main 4

while-ex

n = 3

i = ~~0~~ 1 2 3

j = ~~0~~ ~~0~~ 1 3

3

while-ex

n = 4

i = ~~0~~ 1 2 3 4

j = ~~0~~ ~~0~~ 1 3 6

6

Printed Output

3

6