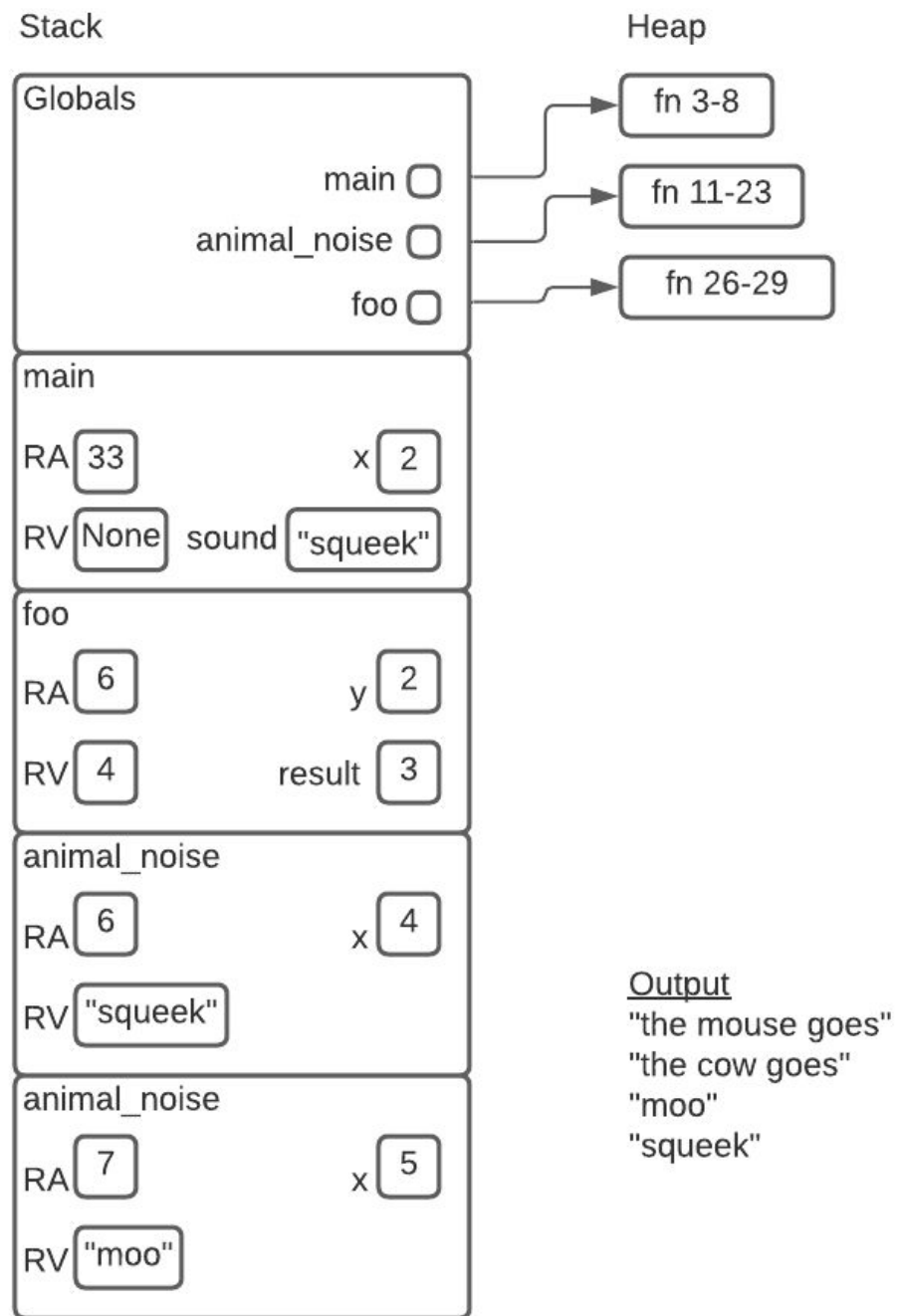# QUIZ 01 PRACTICE KEY

Booleans and Conditionals

1. x: 8
   y: 7

2. i. True
   ii. True
   iii. True
   iv. False
   v. True

3. i. 17
   ii. 2
   iii. -2
   iv. 3
   v. 1

Functions

   1. **Animal noises**

Stack

Heap

Globals

main ◯ → fn 3-8

animal_noise ◯ → fn 11-23

foo ◯ → fn 26-29

main

RA 33 x 2

RV None sound "squeek"

foo

RA 6 y 2

RV 4 result 3

animal_noise

RA 6 x 4

RV "squeek"

animal_noise

RA 7 x 5

RV "moo"

Output
"the mouse goes"
"the cow goes"
"moo"
"squeek"

2. **Nested FUNctions**

Stack

Globals

f ○ → fn 3-9

g ○ → fn 12-19

bar ○ → fn 22-33

Heap

fn 3-9

fn 12-19

fn 22-33

g

RA 36   x 9

RV 9

f

RA 36   x 3

RV 7   y 4

bar

RA 36   x 63

RV 63   y 7

Output
"it's even"
"woohoo!"
63