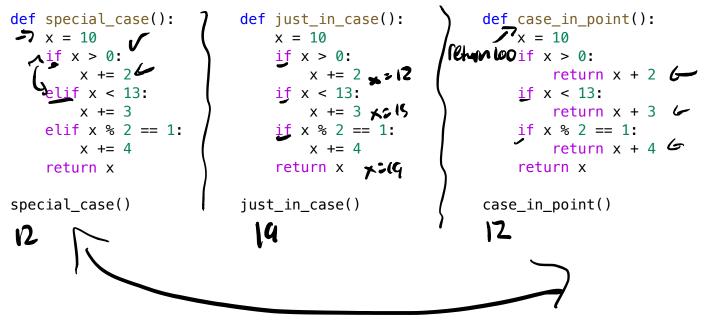
Q2: (Tutorial) Warm Up: Case Conundrum

These exercises are meant to help refresh your memory of topics covered in lecture and/or lab this week before tackling more challenging problems.

In this question, we will explore the difference between the if and elif keywords.

What is the result of evaluating the following 3 pieces of code? Each column is a separate problem.



Which of these code snippets result in the same output, and why? Based on your findings, when do you think using a series of if statements has the same effect as using both if and elif cases?

Q4: (Tutorial) Is Prime?

Write a function that returns **True** if a positive integer **n** is a prime number and **False** otherwise.

A prime number n is a number that is not divisible by any numbers other than 1 and n itself. For example, 13 is prime, since it is only divisible by 1 and 13, but 14 is not, since it is divisible by 1, 2, 7, and 14.

```
-> + 1 is not frime
def is prime(n):
   .....
   >>> is_prime(10)
   False
                          while woop to go from Z. VI
   >>> is_prime(7)
                             T-check remainder of
input / current number
   True
   .....
   "*** YOUR CODE HERE ***"
   けんこうに
      return False
                                  · if O, return Folso
   ew;
                          - it it goes through everything, return True
      メコン
      while x Ln:
          if n 40x == 0:
              return False
          X+=1
   return The
```

Q5: (Tutorial) Fizzbuzz

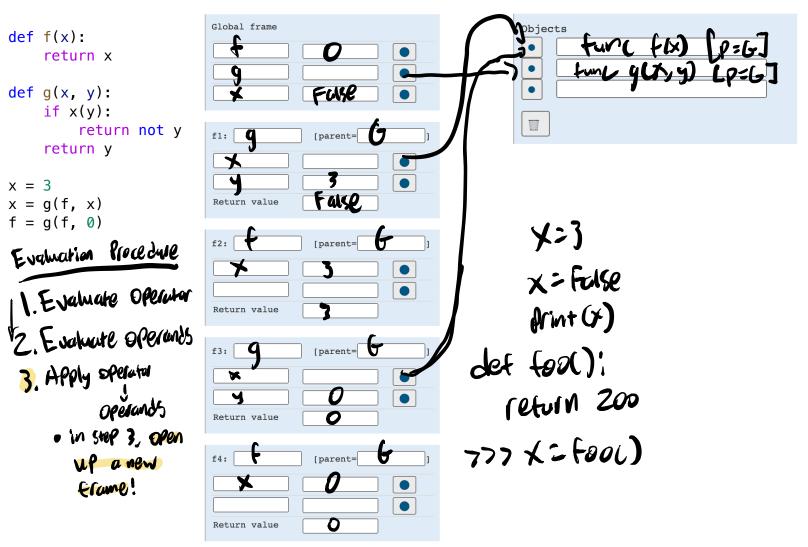
Implement fizzbuzz(n), which prints numbers from 1 to n. However, for numbers divisible by 3, print "fizz". For numbers divisible by 5, print "buzz". For numbers divisible by both 3 and 5, print "fizzbuzz".

This is a standard software engineering interview question, but we're confident in your ability to solve it!

```
def fizzbuzz(n):
    .....
    >>> result = fizzbuzz(16)
    1
    2
    fizz
    4
    buzz
    fizz
    7
    8
    fizz
    buzz
    11
    fizz
    13
    14
    fizzbuzz
    16
    >>> result == None
    True
    .....
    "*** YOUR CODE HERE ***"
```

Q9: (Tutorial) Nested Calls Diagrams

Draw the environment diagram that results from executing the code below. You may not need to use all of the frames and blanks provided to you.



det foo(): Let foo 2():