

Object-oriented programming in Python*(find and work with a partner)*

1. What is this class for? How many *instance variables* are there? How many *methods*?
2. Complete the `get_value(..)` method below.
3. Complete the `roll(..)` method below.
4. What is wrong with the `__str__(..)` method? Fix this below.
5. Does a *constructor* return something? Why or why not?
6. (if time) Complete the `main` function.

```
import random

class Die:

    def __init__(self, num_sides):
        """Construct a new die with the given number of sides."""
        self.sides = num_sides
        self.value = 1 # default starting value

    def get_value(self):

    def roll(self):

    def __str__(self):
        print("%i-sided die, current value: %i" % (self.sides, self.value))

def main():
    # TODO: create 8-sided dice (two die)

    # TODO: roll both until we get the same value

main()
```