Rabbit GETTER METHODS

```
class Rabbit(Animal):
    taq = 1
    def init (self, age, parent1=None, parent2=None):
                                         method on a string to pad
        Animal. init (self, age)
                                          the beginning with zeros
         self.parent1 = parent1
                                           for example, 001 not 1
         self.parent2 = parent2
         self.rid = Rabbit.tag
        Rabbit.tag += 1
    def get rid(self):
                                           - getter methods specific
         return str(self.rid).zfill(3)
    def get parent1(self):
                                            for a Rabbit class
                                             there are also getters
                                             get name and get age
         return self.parent1
    def get parent2(self):
                                              inherited from Animal
         return self.parent2
```

WORKING WITH YOUR OWN TYPES

```
def __add__(self, other):
    # returning object of same type as this class
    return Rabbit(0, self, other)

recall Rabbit's __init__(self, age, parent1=None, parent2=None)
```

- define + operator between two Rabbit instances
 - define what something like this does: r4 = r1 + r2 where r1 and r2 are Rabbit instances
 - r4 is a new Rabbit instance with age 0
 - r4 has self as one parent and other as the other parent
 - in __init___, parent1 and parent2 are of type Rabbit

SPECIAL METHOD TO COMPARE TWO Rabbits

decide that two rabbits are equal if they have the same two parents

- compare ids of parents since ids are unique (due to class var)
- note you can't compare objects directly
 - for ex. with self.parent1 == other.parent1
 - this calls the __eq_ method over and over until call it on None and gives an AttributeError when it tries to do None.parent1

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