第6章作业

```
1. 封装,继承,多态
2. __pow__(),__floordiv__()
3. a._A__value=3
5.
class Vector 3D:
     def __init__(self, x, y, z):
          self._x = x
          self.\__y = y
          self._z = z
     def add(self, other):
          x = self._x + other._x
          y = self.__y + other.__y
          z = self._z + other._z
          return Vector_3D(x, y, z)
     def Minus(self, other):
          x = self._x - other._x
          y = self.__y - other.__y
          z = self. z - other. z
          return Vector_3D(x, y, z)
     def Multiply(self, a):
          x = self._x * a
          y = self._y * a
          z = self. z * a
          return Vector 3D(x, y, z)
     def Except(self, a):
          x = self._x / a
          y = self. y / a
          z = self.__z / a
          return Vector_3D(x, y, z)
     def show(self):
          print('X:{0}, Y:{1}, Z:{2}'.format(self.__x,self.__y,self.__z))
     def lenght(self):
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return (self. x ** 2 + self. y ** 2 + self. z ** 2) ** 0.5
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```
b = Vector_3D(1, 2, 3)
b1 = b.Multiply(4)
b1.show()
b2 = b1.add(b)
b2.show()
print(b2.lenght())
在面向对象编程中,以两个下画线开始的成员为私有成员,这样的成员不建议在
类的外部直接访问,虽然可以通过"对象名.类名 私有成员名"的形式访问。类
的定义中前后各有两个下画线的成员表示特殊成员,这样的成员一般与某个运算
符或内置函数对应
7.
class SecInfo(object):
  def __init__(self, my_set):
    self.sett = my set
  def add setinfo(self, keyname):
    self.sett.add(keyname)
    return self.sett
  def get_intersection(self, unioninfo):
    if isinstance(unioninfo, set):
      return self.sett & unioninfo
    else:
      return "你传入的不是 set"
  def get union(self, unioninfo):
    return self.sett | unioninfo
```

return self.sett - unioninfo A = set([1,2,3,4,5])B = set([5,6,3])

def del difference(self, unioninfo):

#my_set = SecInfo((1,2,3,4,5))
#print(my set.add setinfo(6))

my_set = SecInfo(A)

print(my_set.get_intersection(B))

 $print(my_set.del_difference(B))$

8.

```
class Deque(object):
    def __init__(self):
        self.items = []

def isEmpty(self):
    return self.items == []

def addFront(self, item):
    self.items.append(item)

def removeFront(self):
    return self.items.pop()

def addRear(self, item):
    self.items.insert(0, item)

def removeRear(self):
    return self.items.pop(0)

def size(self):
    return len(self.items)
```