1.

```
def power(x, a):
    """
    Write a function that calculates x^a.
    Assume both x and a are positive numbers.

>>> power(2, 4)
    16
    >>> power(9,2)
    81
    """
```

```
2.
```

```
def list_sorter(master_list):
    """

Write a function that sorts numbers from
    master_list into a list of even numbers
    and a list of odd numbers.

>>> list_sorter([1,2,3,4,5,6,7,8])
    ([1,3,5,7],[2,4,6,8])
    >>> list_sorter([1,3,5,7])
    ([1,3,5,7],[])
    """
```

```
def checker(string_lst, comparer):
    """
    Write a function that counts the number of strings in a list
    that are equivalent to comparer.

>>> checker(['she','sells','sea','shells','at','the','sea','shore'], 'sea')
2
>>> checker([], 'blank')
0
"""
```

4.

```
def strictly_increasing(lst):
```

1.11.11

Write a function that takes in a list of integers and returns a new list containing only the numbers that are in increasing order. Numbers should appear in the same order in the input and output list.

```
>>> increasing([1, 3, 2, 4, 5, 8, 7, 6, 9])
[1, 3, 4, 5, 8, 9]
```