def main():
    nums1 = list(range(6))
    nums2 = list(range(9, 6, -1))

    nums1[0] = nums1[2]
    nums2 += [nums1[4]]

    print(nums1)
    print(nums2)

main()
Complete the function

Complete the following function which is passed a list of ints as a parameter and returns a **new list** in which each element is the squared value of the element in the original list.

```python
def get_list_of_squares(a_list):

def main():
    my_list = list()
    for i in range(10):
        my_list = my_list + [random.randrange(1, 10)]
    print("1.", my_list)
    print("2.", get_list_of_squares(my_list))
main()
```

1. [8, 8, 3, 6, 9, 8, 6, 8, 2, 1]
2. [64, 64, 9, 36, 81, 64, 36, 64, 4, 1]
Complete the function

- Complete the following function which is passed a list of numbers as a parameter. The function prints the largest and the smallest value in the list. You can assume that there is at least one element in the parameter list.

```python
def print_min_max(a_list):

def main():
    my_list = list()
    for i in range(0, 20):
        my_list = my_list + [random.randrange(1, 20)]
    print("1.", my_list)
    print("1.", my_list)
    print_min_max(my_list)

main()
```

[14, 10, 10, 18, 9, 16, 12, 15, 7, 6, 7, 15, 17, 7, 19, 17, 6, 4, 9, 16]

Largest: 19, Smallest: 4
Complete the function

- Complete the print_xs() function which prints a line of characters. An "X" is printed if the corresponding element of the parameter list is True, otherwise a space is printed (see the output of the example below where the elements in position 0, 3 and 5 are True).

```python
def print_xs(a_list):

def main():
    print("0123456789")
    my_list = [True, False, False, True, False, True, False, True]
    print_xs(my_list)

main()
```

```
0123456789
X  X  X
```
Complete the function

- Complete the start_with_vowel_count() function which returns a count of all the words in the list which start with a vowel. Assume each word in the list has at least one letter.

```python
def start_with_vowel_count(a_list):
    vowels = "aeiouAEIOU"

def main():
    my_list = ['Nobody', 'goes', 'to', 'that', 'restaurant',
               'because', 'it', 'is', 'too', 'crowded']
    print("Start with a vowel", start_with_vowel_count(my_list))
main()
```

Start with a vowel: 2