Create a recursive function that accepts two integer argument a and b, and return the result of a power b

```
1 * def pow (a, b):
2 *    if (b == 0):
3         return 1
4 *    else:
5         return a * pow (a, b-1)
```

Create a recursion function that accepts a list as the argument, and return the length of the list

```
1 def panjang_list(a_list):
2    if not a_list:
3      return 0
4    else:
5     return 1 + panjang_list(a_list[1:])
```

Create a recursion function that accepts a non-negative integer a as the argument, and return the sum of the digit. Example -> 45 = 4+5=9

```
1 - def sum_of_digits (a):
2 -    if (a == 0):
3        return 0
4 -    else:
5        return a%10 + sum_of_digits(a//10)
```

Create a recursion function that accepts a string argument, and return the result if the string is a palindrome or not (True/False)

```
// Solution 1
 2 def is_pal_rec (a_str, first_index, last_index):
        if (first_index == last_index):
3 -
            return True
 4
 6
        if (a str[first index] != a str[last index]) :
            return False
 8
9 -
        if (first_index < last_index + 1) :</pre>
10
            return is_pal_rec(a_str, first_index + 1, last_index - 1);
12 def is_palindrome (a_str):
13
        n = len(a_str)
14
15
        if (n == 0):
16
            return False
17
18
        return is_pal_rec(a_str, 0, n - 1)
19
   // Solution 2 - Credits to Zuhdy
21 def is_palindrome (a_str):
22 -
        if (len(a str) == 0):
23
            return True
24
25
        panjang_string = len(a_str)
        return (a_str[0] == a_str[panjang_string-1]) and is_palindrome(a_str[1])
26
            :panjang_string-1])
```

Create a recursion function that accepts a string argument a, and return the reverse of the string

Create a recursion function that accepts an integer list a, and return the maximum value of the list