



```
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

even_numbers = list(filter(lambda x: x % 2 == 0, numbers))
odd_numbers = list(filter(lambda x: x % 2 != 0, numbers))

print(f"Original array: {numbers}")
print(f"Number of even numbers: {len(even_numbers)}")
print(f"Number of odd numbers: {len(odd_numbers)}")
```

```
Original array: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Number of even numbers: 5
Number of odd numbers: 5
```

```
string_list = ["madam", "racecar", "hello", "level", "world", "refer", "python", "apple", "banana", "cherry", "date", "elderberry", "fig", "grape", "kiwi", "lemon", "mango", "orange", "pear", "quince", "rhubarb", "strawberry", "tangerine", "watermelon"]

palindromes = list(filter(lambda x: x == x[::-1], string_list))

print(f"Original list of strings: {string_list}")
```