

Generic counting function:

```
def some_counting_function(s):
    total = 0
    for pos in range(0, len(s), 1):
        if <test s[pos] for something>:
            total = total + 1
    return total
```

Generic filtering function:

```
def some_filtering_function(s):
    answer = ""
    for pos in range(0, len(s), 1):
        if <test s[pos] for something>:
            answer = answer + s[pos]
    return answer
```

Practice:

1. Write a function called `count_digits` that returns the number of digits in a string.
`count_digits("abc123def5")` returns 4
2. Write a function called `filter_digits` that returns only the digits from a string.
`filter_digits("abc123def5")` returns "1235"
3. Write a function called `sum_digits` that returns the sum of all the digits in a string.
`sum_digits("abc123def5")` returns 30
4. Write a function called `count_dups` that counts the number of back-to-back duplicated characters in a string.
`count_dups("balloon")` returns 2.
5. Write a function called `count_unique` that counts the number of unique characters in a string.
`count_unique("abracadabra")` returns 5.
6. Write a function called `reverse` that RETURNS (not prints) the reverse of string `s`.
`reverse("abc")` returns "cba"