

# CS 161, Lecture 9: Functions – 31 January 2018

# Revisit Anatomy

1 `int check_length (string input);`

```
2 int check_length(string input) {  
    int len = 0;  
    while (input[len] != '\0') {  
        len++;  
    }  
    return len;  
}
```

3 `int res_length = check_length("hello world");`

Answers:

1.

2.

3.

# Exercise: Binary Conversion

- Recall from recitation one how to convert a binary number to a decimal

# How would we write a program to convert binary to decimal?

- How are you going to take input?
- What should be the output?
- What errors may occur?

What functions do we need?

# Design your functions

- Each function should have
  - Name
  - Return type
  - Parameter listing
- What are the preconditions for each one? Do they need the results of other functions?

Demo