Tutorial 2

- Quick review of C Syntax
- Implementing a few functions
- Recursion in C
My first C programs

All we have so far is:

- int types
- simple functions
- main with only `trace_int`

Let's try using them in seashell
Sum of First N Squares

Define the following C function:

```c
// sum_first_squares(n): calculates the sum
// 1^2 + 2^2 + 3^2 + ... n^2
// requires: n >= 0
```
Minimum of 4 Integers

Define the following C function:

```c
// min4(a, b, c, d) finds the smallest of a, b, c and d
```
Integer Division

Define the following C function:

```c
// ceiling(a,b): produces the value of a/b, rounded up to
// the next largest integer
// requires: a >= 0, b > 0
```