CSCE 330 Fall 2023

Quiz 7

Assigned Tuesday, 23-11-07

1. Find the error in the following function:

$$sum [] = 0$$

$$sum(x:xs) = x + sum x$$

Answer: x should be xs

2. Consider the following function:

```
product [] = 1
product (x:xs) = x * product xs
```

Show that product [1,2,3] = 6.

Answer: product [1,2,3] = 1 * product [2,3] = 1 * 2 * product [3] = 1 * 2 * 3 * product [] = 1 * 2 * 3 * 1 = (several ways to finish).