CSC 212: Data Structures and Abstractions Spring 2018

University of Rhode Island

Weekly Problem Set #2

Due Wednesday 2/14 before lab. Please turn in neat, and organized, answers hand-written on standard-sized paper without any fringe. At the top of each sheet you hand in, please write your name, and ID. The only library you're allowed to use in your answers is iostream.

1. Explain the difference between the following three declarations of a pointer.

```
const int* ptr;
int* const ptr;
const int* const ptr;
```

- 2. Assuming y is equal to 10, what is x equal to after this code: int x = *(&y);
- 3. What is the minimum number of bits required to store n distinct code values?
- 4. Simplify the following expressions: $2^{\log_2 n}$,