CS 160
CS Orientation

More Unix and C++
Odds and Ends

• Last assignment due Wed, 12/4!!!!
• Contact Calvin if MTH is 112 or higher for EECS 161!!!!!
• Register for EECS not CS!!!!!
• Extra Credit Final, Monday 12/9 at 12pm!!!!
How do we make decisions in C++

- If/Else Statements

  if (x == 0)
  
      cout << “X is zero” << endl;

  else if (x == 1) {
      cout << “X is one” << endl;
  }

  else {
      cout << “X is neither 0 nor 1” << endl;
  }
How do we make decisions in C++

- Switch Statements
  ```cpp
  switch(x) {
    case 0:
      cout << "X is zero" << endl;
      break;
    case 1:
      cout << "X is one" << endl;
      break;
    default:
      cout << "X is neither 0 nor 1" << endl;
  }
  ```
How do we make repetition in C++

• While loop
  
  ```cpp
  int x = 0;
  while(x == 0) {
    cout << "X is zero" << endl;
    cout << "Enter new x: ";
    cin >> x;
  }
  cout << "X is not zero!" << endl;
  ```
How do we make repetition in C++

• For loop
  ```
  int x;
  for(x = 0; x == 0; cin >> x) {
    cout << "X is zero" << endl;
    cout << "Enter new x: ";
  }
  cout << "X is not zero!" << endl;
  ```
How do we make repetition in C++

- Do-while loop

```cpp
int x = 0;
do {
    cout << “X is zero” << endl;
    cout << “Enter new x:”;
    cin >> x;
} while(x == 0);
cout << “X is not zero!” << endl;
```
Quiz 7

• What kind of loop are you using to determine if you should continue with your program or quit?
• Why are you using the type of loop you are?