Lecture #1

```cpp
// Class Challenge!

class Cylinder {
  private:
  int radius;
  int height;

  void init(int r, int h) {
    radius = r;
    height = h;
  }

  public:
  double getVolume() const {
    const double pi = 3.1415;
    double vol = pi * radius * radius * height;
    return vol;
  }
};

int main() {
  Cylinder c;
  c.init(10, 10);
  cout << c.getVolume();
}
```