

C++ code 2.7.5: Implementation of `measureDomain()` → [GitLab](#)

```
2  std::pair<double, double> measureDomain(std::string filename) {
3      double volume, length;
4
5      // Load mesh into a Lehrfem++ object
6      auto mesh_factory = std::make_unique<lf::mesh::hybrid2d::MeshFactory>(2);
7      lf::io::GmshReader reader(std::move(mesh_factory), filename);
8      std::shared_ptr<lf::mesh::Mesh> mesh_p = reader.mesh();
9
10     // call the functions we already implemented
11     length = LengthOfBoundary::lengthOfBoundary(mesh_p);
12     volume = LengthOfBoundary::volumeOfDomain(mesh_p);
13
14     return {volume, length};
15 }
```