

C++ code 2.9.2: Sub-problem (2-9.d): Implementation of `countEntityDofs()` → [GitLab](#)

```
2  std::array<std::size_t, 3> countEntityDofs(  
3      const If::assemble::DofHandler &dofhandler) {  
4      std::array<std::size_t, 3> entityDofs;  
5      // Idea: iterate over entities in the mesh and get interior number of  
6      //       dofs for  
7      //       each  
8      std::shared_ptr<const If::mesh::Mesh> mesh = dofhandler.Mesh();  
9      for (std::size_t codim = 0; codim <= 2; ++codim) {  
10         entityDofs[codim] = 0;  
11         for (const auto *el : mesh->Entities(codim)) {  
12             if (el->RefEl() == If::base::RefEl::kQuad()) {  
13                 throw "Only triangular meshes are allowed!";  
14             }  
15             entityDofs[codim] += dofhandler.NumInteriorDofs(*el);  
16         }  
17     }  
18     return entityDofs;  
19 }
```