
Algorithm 5 Count classes without inherited/non-inherited axiom(s)

```
1: function CHECKEQUIVALENCE(CLASS, ONTOLOGY, PRINTWRITER AX-  
   IOMS_OK, PRINTWRITER AXIOMS_NO_OK)  
2:   PrintWriter axioms_ok;  
3:   PrintWriter axioms_no_ok;  
4:   ontology = loadOntologyFromOntologyDocument(ontology);  
5:   ontologyIRI =  
6:   create("http://www.semanticweb.org/ontologies/2013/11/icd10k.owl#");  
7:   factory = manager.getOWLDataFactory();  
8:   factory.getOWLClass(IRI.create(ontologyIRI + "Diseases"));  
9:   Set subclasses = classeDiseases.getSubClasses(ontology);  
10:  for each subclass from subclasses do  
11:    size = subclass.asOWLClass().getEquivalentClasses(ontology).size();  
12:    if size == 0 then  
13:      axioms_no_ok.println(subclass.asOWLClass())  
14:    else  
15:      axioms_ok.println(subclass.asOWLClass())  
16:      checkEquivalence(subclass.asOWLClass(), ontology, axioms_ok,  
        axioms_no_ok);  
17:    end if  
18:  end for  
19: end function
```
