```
procedure OTTER(sos, usable)
   inputs: sos, a set of support—clauses defining the problem (a global variable)
           usable, background knowledge potentially relevant to the problem

   repeat
      clause ← the lightest member of sos
       move clause from sos to usable
      PROCESS(INFER(clause, usable), sos)
   until sos = [ ] or  a refutation has been found
```

```
function INFER(clause, usable) returns clauses

   resolve clause with each member of usable
   return the resulting clauses after applying FILTER
```

```
procedure PROCESS(clauses, sos)

   for each clause in clauses do
      clause ← SIMPLIFY(clause)
      merge identical literals
      discard clause if it is a tautology
      sos ← [clause | sos]
      if clause has no literals then a refutation has been found
      if clause has one literal then look for unit refutation
   end
```