Logical reasoning and programming, task IV

(December 18, 2017)

Problem

Your task is to create a Prolog program that verifies/checks an input tableau proof.

Tableau Proof Format

The tableau proof format is a Prolog repesentation of Semantic Tableau tree that is similar to the previous task. The structure is following:

```
proof (NNF formula, proof of the NNF formula)
```

where *NNF formula* is some formula that we want to check (it corresponds to top) and *proof of the NNF formula* is its proof in exactly the same format as output proof format of the previous task.

Program

You are supposed to upload a program verifytap.pl, in an archive, containing a predicate verify/1.

if verify/1 is called with a correct tableu proof, then succeeds. Otherwise it fails.

Example 1

Example 2

yes