

CSC 4504 : Langages formels et applications

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Composite or Prime? (Part 2)

Problem 3 - Part 2 - 'Test' That This TRS works correctly (for checking primality)

(x and y are non-empty hyphen-strings)

AXIOM

P --

xy DND x

REWRITE RULES

x DND y \rightarrow x DND xy

-- DND z \rightarrow z DF --

z DF x *and* x- DND z \rightarrow z DF x-

z- DF z \rightarrow P z-

The *and* is just syntactic sugar