

FOORNIMA COLLEGE OF ENGINEERING DETAILED LECTURE NOTES

Vniffention

all about wrahing the tx palssions Vusfication la a so, for the given Expuessions looks identical look j'dentical we need to do to make them Lubritution

, P (a, f (g(z))) () P(x, f(y))

-> Variable -> tein

(x,y) (2,3) y=3

[a/a, g(z)/y] - Julistitubien set

if he would

P(x, fly)), P(a, g(f(z)))

In this example unification would not be possible.

(2) Q(a, q(x,a), f(y), Q(a, q(f(b),a), [ala, f(b)/x, b/y] Julistitution: A sulistitution til Vi sprissies Sulstitution of term bi and Variable vi Unification Algorithm Algo ? Vuify (11, 12) I) If I and L2 is a Variable on Constant, then; a) If I and (2 are identical then between NIL. b) 19 C1 is a Variable, then if 11 vocues in L2 tun entrum fail, else Return & (1/12)3. () same as b (L2) {(L2/L1)}} d) Fless return FAIL 3) If the hital puedicate lymerole mili and La are not identical, then entrem FAIL.

3) If I and La have different no. of Arguments, then Fail. 4) Let Subset be NIL. r) book) Append (S, Inhest). 6) Kethen lubset.



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Implement affen

- 1) hiltialize the Julyfitulian set to be emply
- 2) Recuestively mify expressions:
- -> Identical Item malch.
-) If one item is Variable Vi by the obtuer is term to not containing that Variable, then?
- D Julistitute lifvi in the Histing Inlistitution.
- @ Add & / Vi to the Lubstitution set.
- 3 if both items are functions, the function names must be identical and all Arguments must builty.

Examples

lousider P(x 3, g(x))

John -)

P(7, y): unifier with [l relz 2 gln)/y]

P(2, g(2)): unifier with [relz 2 gln)/y]

(3) P(Socrates, g(socrates)): unifier with [socrates/x]
(4) P(g(y), z): unifier with [g(y)/x, g(g(y)/z] E) P(socrates, J (socrates) ? does not might 6) p(gly), y): does not mify -) Nor Junglituhian weeks.