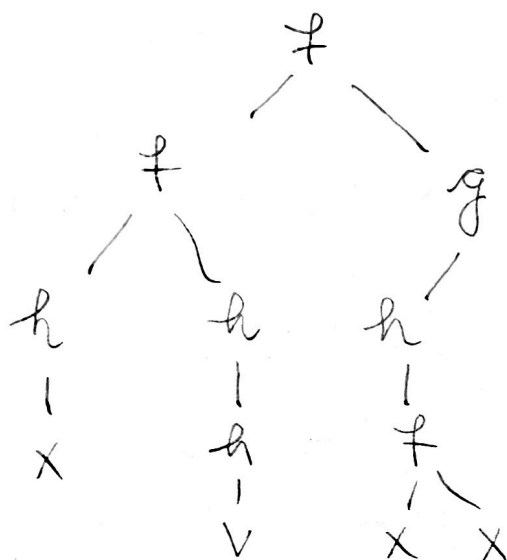
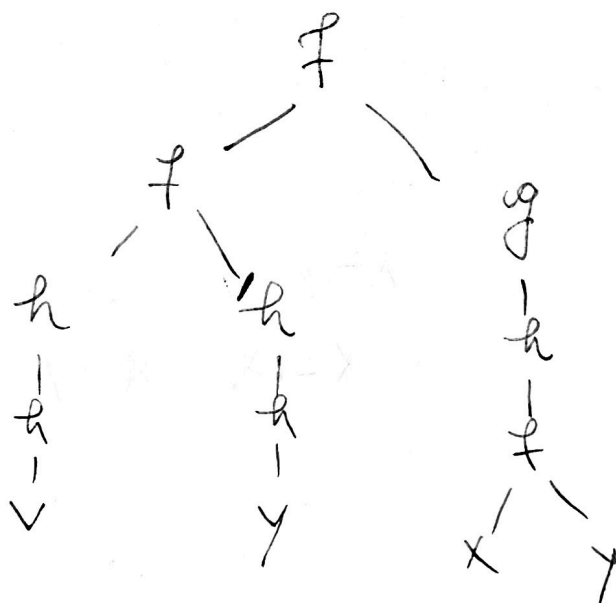


1) $f(f(h(x), h(h(v))), g(h(f(x, x))))$:



$f(f(h(h(v)), h(h(y))), g(h(f(x, y))))$:



Initializare: $S = \emptyset$

$$R = \{ f(f(h(x), h(h(v))), g(h(f(x, x)))), \\ f(f(h(h(v)), h(h(y))), g(h(f(x, y)))) \}$$

S

R

Descomp. \emptyset

$$f(f(h(x), h(h(v))), g(h(f(x, x)))) =$$

Descomp. \emptyset

$$f(f(h(h(v)), h(h(y))), g(h(f(x, y)))) \\ f(h(x), h(h(v))) = f(h(h(v)), h(h(y))), \\ g(h(f(x, x))) = g(h(f(x, y)))$$

Descomp. \emptyset

$$h(x) = h(h(v)), h(h(v)) = h(h(y)), \\ h(f(x, x)) = h(f(x, y))$$

Rezolvă \emptyset

$$x = h(v), h(v) = h(y) \\ f(x, x) = f(x, y)$$

~~Scote~~
~~Rezolvă~~ \emptyset

~~Scote~~ \emptyset

$$x = h(v), v = y \\ x = x, x = y$$

Rezolvă \emptyset

$$x = h(v), v = y \\ x = y$$

Rezolvă $x = v$

$$x = v, x = v$$

$$x = h(v), x = v$$

$$v = h(v) \text{ ESEC}$$

$v \in V(h(v)) \Rightarrow$ Problema
de unificare nu are soluție

Manolache Andrei
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Examen

② Numerotări: ~~6~~

- | | |
|---------------------|-----------------------------|
| 1) bărbat (alex). | 7) ochi (alex, negru). |
| 2) bărbat (andrei). | 8) ochi (ana, copru). |
| 3) femeie (ana). | 9) ochi (andrei, albastru). |
| 4) femeie (carmen). | 10) ochi (carmen, violet). |
| 5) femeie (elena). | 11) ochi (elena, verde). |
| 6) femeie (maria). | 12) ochi (maria, copru). |

- 13) $place(B, F) : \text{bărbat}(B), \text{femeie}(F), \text{ochi}(F, \text{violet})$
- 14) $place(B, F) : \neg \text{bărbat}(B), \text{femeie}(F), \text{ochi}(F, \text{verde})$
- 15) $place(F, B) : \neg \text{femeie}(F), \text{bărbat}(B), \text{ochi}(B, \text{albastru})$
- 16) $logoditi(B, F) : \neg place(B, F), place(F, B)$
- 17) $rivoli(P, Q) : \neg \text{femeie}(P), \text{femeie}(Q), place(B, P), place(B, Q)$
- 18) $rivoli(P, Q) : \neg \text{bărbat}(P), \text{bărbat}(Q), place(F, P), place(F, Q)$

} P/Cive }
 { Q/Cive }
 1 female (Cive), 1 female (Cive), 1 place (B, Cive), 1 place (B, Cive)

{ Cive/alone }
 5 /

1 female (Cive), 1 place (B, alone),
 1 place (B, Cive)

1 place (B, alone),
 1 place (B, common)

B = Alex
 Cive = common
 Cive = alone

B = Andrew
 Cive = common
 Cive = alone

5 { Cive/alone }
 1 place (B, alone),
 1 place (B, alone)

B = Andrew
 Cive = alone
 Cive = alone
 Cive = alone

{ Cive/common }

1 female (Cive), 1 place (B, common),
 1 place (B, Cive)

{ Cive/common }
 4 /

1 place (B, alone),
 1 place (B, common)

B = Alex
 Cive = alone
 Cive = common

B = Andrew
 Cive = alone
 Cive = common

B = Alex
 Cive = alone
 Cive = common

B = Alex
 Cive = alone
 Cive = common

B = Andrew
 Cive = alone
 Cive = common

(Conjunctive Normal (18))

$\{P/Cine\}$
 $\{Q/Cine\}$

$\neg \text{drama} (Cine, Culture)$

$| 18$

$\neg \text{horror} (Cine), \neg \text{horror} (Culture),$

$\neg \text{love} (Cine), \neg \text{love} (Culture)$

$\{Cine/andrei\}$

$\neg \text{horror} (Culture),$

$\neg \text{love} (F, andrei),$
 $\neg \text{love} (F, Culture)$

$\{Culture/andrei\}$

$\neg \text{love} (F, andrei),$

$\neg \text{love} (F, andrei)$

$\neg \text{love}$

$\neg \text{love}$

$\neg = \text{and}$
 andrei
 andrei

$\neg = \text{and}$
 $Cine = \text{andrei}$
 $Culture = \text{andrei}$

$\neg = \text{and}$
 $Cine = \text{andrei}$
 $Culture = \text{andrei}$

$\neg = \text{and}$
 $Cine = \text{andrei}$
 $Culture = \text{andrei}$