impost se det gal Attailbules (expa): exp3 = exp3. spiit ("1")[1:] expa="(", John Lexpa) [1:1] reax = expx [:-1] exps = 91e-spirt ("(9<17(-), (91,1))", exps) Return exps def getinities predicate (expr): Setuan expa. split ("(") [0] def is constant (char): Return chas isuppeac) and len (chas) = =1 def is whichle (chor): neturn charislower () and len (char)==) der seplace Attaibates cexps coldinew):

attn=get Attnibutes (expa)

for index, val in enomerate (atta):

if val == old:

Phedicate = get inital phedicate (expx) setuan phedicate

+"c"+".".Join (a+tx)+")"

def apply (expg. subs): fog sub in subs:

Ambekan Monis 4 new cold: sub 1105781MEN gietuan expa def checkoccuss (vas, exps): if exps. And (Vax) ==-1: gretuan joise gretuan 790e det getfisst past-lexps): atta = get-Attaibutes (expa) Cooketto neutor def get Remaining part (expa): priedicate = getinitic/predicate (exps) head 12 = 3et = 19st Pant = Ht9 = get Attaibutes (exps) newexpa = paedicote + "c" + "," . Join(ottaci: J)+")" gretuan new Expa des ouist cexbil exbo): if expl==expl: net uan [] if is constant (expi) and is constant (exp2): if exp 1 = ex2:

if expli=ex2:

netuan folse

if is constant cexpli:

netuan [cexpliexpr)]

if is constant lexpr)]

if is variable (expi):

if checkoccuss (expi):

seturn follo

noton [(exp2, exp1)]

A. Honish

if charleaction compacts

if checkoccuss (expriexpi): Deturn Folxe else:

aetuan [cexp1,exp2)]

if getinitial prodicate (exp1)!= getinitial prodicate (exp2):
Phint ("predicate do not motal. connot be unified")
Preturn Folse

head 1 = get First Part (exp 1)
head 2 = get First part (exp 2)
initial sub = unify chead 1, heade)
if not initial sub:

Actuan Folse
if attaibute count 1==1:
getuan initialsub

boil 1 = get Remaining Part (expr) boil 2 = get Remaining Part (expr)

if 1011601 subj. = CJ:

toil 2 = opply (toil 2, initial sub)

Grencining sub= unify (tail1, tail2)

if not grencining sub:

greturn False

initial sub. extend (Aemaining Sub)

Pretuan initial sub

expl=input ("Expression 1:")

exp2=input ("Expression 2:")

subs= unify (expl. exp2)

paint ("substitutions:")

paint (subs)

Ambekon Hunisy 13M1rcsol2