vauiable = { 'P': 0, 'Q': 1, 'R': 23 puriourity = { '~':3, '^:2, 'v': 13

def eval (i, val, valz)

if i = = '\n':

geturn val2 and VI return val2 ou vall

det is Operand (c)
return c.isalphaes and c! = 'v'

def ist haves Or Equal priority ((1, cz):

tuy:

return Briarity (c1) <= Briarity (c1)

except:

action False.

def to Pastfix (infix):

stack = C]

postfix = "

fou c in infix.

if is observed ccs:

postfix += c

elee

A. Agoawal

Naman Agarwal 18m18c2057

if c = = 'C'

Carrie rumari

stack. append (c)

elie fc== '>' 10:93 = station

openanton = stack-popc).

while not itelt denaton! = 'c'

postfix t= openatou.

openator = stack.popcs

olee :

while (not dad tent

and hastess Die Equal Priority (C, kear (stack))

postfix # = stack. pop()

stack-append (c)

while (stack! = 0):

postfix += stack-pop (1.

Return fostfix.

A. Agaeul

Namen Agrewal
18M8CSOS7

det evoluate (exp, cons)

stack = C]

fou i in emp:

if is Opnand (i):

Stack. append (comb (vaniable [i])

elif i = = 'au' :

vali = stack. popc).

steeck append (not Uall)

ele

vall = stack.popc)

valz. " popc)

stack. Append (evales, val, val2))

selve stack. popc

det check()

kb = (influt ("Enter knoledge base")

quiny = (infot (" Enter Duny")

combinations. [[Tun, Tun], [Tun], [Tun, Fal.]

[Tu, Fale, Tun], [Tun, Fach, Fale]

[Foli, Tu, Tun], [Falu, Tu, Falu)

[Fule, Fue, Tu], [Fule, Fole, Feel] JBm 18 CE 057

postfix_kb = tofortfix (126)
postfix_q = to Postfix (Quy)

for combination in combinations

chalkb = eluterPostfix (postfix_kb),
combination]

evalg = evaluatePostfix (postfix-q, combination)

print (combination, evalles, eval-q)

if (end-leb = = Tran):

il (ealq == Fake).

vetim False

Peter tane.

A. Agul.