Ragear Mittal 1BM18C1075 AI-LABTEST - 2 82 a vesteon - 3 Consider P, B, and R as variables and the knowledge base contains following sentence.

A => R , P => ~ B ; R v B

Derign the code for TT entail ment and whether knowledge base entails R. combinations = [(True, True, True), (True, True, False) (True, False, True), (True, False, False). (False, True, True), (faire, True, false), (faire, faire, True), (false, false, false) variable = { 'P':0, '8':2, 'R':23 Kb = 11 polority = ('~':3,'v':1,'^':2) def input rules (); global kb, 9 kb = (input ("enter rule:")) 9 = input ("Enter the query") def entagment ();

global Kb, q prent (' ' * 10+ "Trush Tabee Reference" + " *10)

print (' * ' * 10)

print ('* ' * 10) for comb en combinations: s = evaluate Postfix (toPostfix (46), comb) f = evaluate Postfix (toPostfix (q), comb) prent (s, g)
prent ('-'*10) if s and not f: nepusu false return True des is operand (c); return c isalpha () and (!='v' det is left Parenthesis (c); return c = = () det is Right Ponenthesis (C); de is empty (stack); return leustack = = 0 def peek (stack):
return vstack [-1]

dy hashen or equal Potority (c1, 2)! return priority [c1] (= priority [c2] encept key error: dy doPostféx (énfix): vstack = [] postfix = 1 1

for en injex:

if isoperand (c): else: if buft Parenthesis (C): stack append (c) elij å, Rigut Parenthesis (c)
operator = stack pop () while not is Left Ponenthesis (operator): postfix + = operator operator = votack · pop () else: while (not is Empty (stack)) and hashers Orkquel Priority ((, peck (stack))! postfor + = stack. pop () stack. append (c)
while (not is Empty (stack)): postfix + = stack pop() sortum postfin

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det evaluate Postjex (eap, comb):
*stack = []
      for & in emp:

if is Operand (1);
       votack. Operand
          vstack. append (comb[variable[i]])
          elig ê = = 'a';
val 1 = vtack-pop()
               stack append ( not val 1)
     else!
            val1 = vstack pop ()
              val 1 = vstack .pop ()
      stack. append (-eval (é, val2, val1))
 return vstack · pop ()

def - eval (i, val2, val2):
            return val 2 and val 1
        return val 2 or val 1
exput _ rules ()
ans = entail ment ()
    if ans:
print ("The Icnow ledge Base entails query")
  else print (" The know redge Base does not entail query")
```