Y SAI DEOKSHITH ATLAB-2 1 BMISCSINS 01/01/21 2nd Perogram. (niver (KB): A => B and C=> D awy: AVC => BVD Program: import ne return 1'-(term) if term [o] 1= '~' dre term[i] def regale (term): def reverse (cloure): if lun (cloure) 72; t = Spht-tenus (clause) netwar f'{ + [1] } x { + [0] } sulver " def Spht-towns (rule): emp = '(~ > [Parg) tours = re. fintall (enp. mile) outurn terms def Contradiction (query, clause): Contradictions = [ +7 query 3 v & negotil query) ? b' { regale (query) (v & query 3') 10/

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1BM18CSIN8 return dance in Continuations & revene (clause) in def resource (Kb, greeng): temp: Kb. Copy () temp = [negate(query)] Steps - dict() for smale in temp: steps[mile] = 'Griven. Steps [regate (query)] = Negeted Conclusion while i < len (temp): n = len (tent) j=(1+1)°/. n Clower=[] While | 1 = 1... fearing = ephit-being (temp[1]) torung = sprit-torun (temp[]) for c interms! if regate (c) in terms?

LV. [ E fat in terms ift := c]

P. SN DEEKSHITH

P.SAI DEEKSHITH IBMISCS/48 tz: [t fo t in terms 2 if tie (c)] if (gento) == 2: if (gento) 1 = negate (genti). Clauses + : [F' (gento] Vy 76%) if contradiction(group, figure). temp. offend (s' { gents) slep[']= {+" Runhal from Steup [17]
and Etemp [17] netwer steps che if (len (gen) == 1; che if (len (gen) == 1; che if contradiction (group, & Stemp 10) }

P. SAI PEEKSHITH 1BH 18C5 148 2 tours 2 To]}'). temp. append (f' {terms 170]x {terms 207}) 3repril' ]- f" Resolved Stemp I IPT & and.
Stemp 2 Ti Ty to Heap E-174. survour steps. if cloure not in clarier and chulle! for clauser in clauses: nevere ( town) temp. appear (claure)
8 resport clause] - F' Ferobred from [3]?
8 resport clause] - F' Ferobred from [3]? 1=(1+1)1/. n. sulvour steps. Wy. (h)

P. SAI DEEKSHITH 1BM18C5148. def resolution (Kb, query): Kb: Kb. sphit(")
Stopus: reloke (Kb, grey) perial (" In stept I clause | t ) Des neation (") paint (- 1 x 30) penint (f' \in in, \t 18 svep y \t 1 & evep ( step 13 4) for step in steps: def main() perint ('enter Kb:") Kn = input [] perial (" Enter the glery") query = input () susolution (Kb, grey) 1 - name == " main -". Mai'n() 20/ n

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