Abhishika Kumar Con 18 M 18 C 3004 29/12/20 AI LAB TEST-I Perogram 4 (FOL W CNF) impost seemi by get Altoloute (string): exp3="([^]]+)) matches = se-findall (enpr, stong) grehion [m Jos m in 86 (matches) j m. isalpha() getPredicales (strong): expx = [a-2~]+ \ ([a-2a-2,]+1)" erehon se findall (exps, string) del DeMorgan (sentence): Stoney = ' . Join (list (sentence) · copy ()) Stoing = Stoing . supplace ('~~', flug = '[in slowing steplace ('IT', ') shing = shing-ship (']') dor predicate in getPredicates (string):

string = string · replace (predicate, 1'~{predicate}') s = list(shing) Jos i, c in enumerate (string) () c== 11: 8[1] = \1 1 eli c = : &': 8[i] = '1' shing = ' join (s) string = string . replace (' ~ ~' , ' J'[dstring y] i flag cloc stoin

	Date//	
		P
	Statement = statement - supplace ("=); "-")	1
	emps = 1/[([1]]+))]	-
	statements = ore-findull (expr., statement)	
	Jor is in enumerate (statements):	
	if 'I' in s and ']' not in s:	
	Statements [i] += 'J'	
	Jod S in statements:	
	Statement = statement - supplace (s, Jol b_cg) (s)	
	while '-' in statements:	
	i = Statement · index ('-')	-
	by = statement index ('[') i] '[' in statement due]	-
	new statement = 'n' + statement [br:] + 1 + statement [i+1:]	1
	statement = statement [: bs]+ new_statement i) bo>0	-
	else new statement	1
	cubile 'at' in statement:	1
	i = statement index ('~Y')	-
	statement = list (statement)	+
	statement [i], statement [i+1], statement [i+2] =	-
] statement [i+2], '~'	-
	statement = '. join (statement) while '~ I in statement:	-
	i = statement indox (~]')	
	S = (ist (stakment)	
	S[i], s[i+1], s[i+2] = '+', S[i+2], '~'	
	Statement = 1'; jain (s)	
	stakment = statement supplace ('~[+']'[~+')	
	Statement = statement · seplace ('~[]', '[~]')	
	enpo = (([EI 4] ~) = 89 KB	
	statements = siefindall (lenpa , statement)	
	Job s in statements:	
1.74	stalement = stalement - sieplace (s. l.d. bo col(s)))
-4	expr = " [[1]]+1] " Stalement = Stalement - Steplace (S. Jol-ho.cn)(s) Oxpr = " [[1]]+1] " (3)	

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statements = one-findall (expor, statement) Jos s in statements: statement = statement - replace (s. Dettorgan (s)) grehon statement statement = input ("Enter Jol statement:")

print (j" Jol converted to cnj : { Skolemization (Jol to cnj

(statement)) 3")