	LAB-8		Bafna Gold — Date: Page:
#	Forward Reasoning Algorithm	AND THE	Output:
-1			Criminal (Robert) is prover!
\$	STEP: Makeson SUBSET.	19	Inferred Facts:
	function FOL-FC-ASK (KB, &) retvous false	113	American (Robert)
	inputs & KB, the Knowledge base, a Set of fo	Markey	Enemy (A, America) Owns (A, T1)
	&, the quedy, an atomic sentence	ILLO	Owns (A, T1)
	Local variable: new, the new sentences	Market St.	Coiminal (Robert)
			Missile (T1)
	repeat until now is empty		Weapon (TI)
	new < f3	91	Sells (Robert T1 A)
TOV	for each rule in KB do	113	H 10/6(D)
	for each O such that SUBSI	1/2	/ hall.
	for some p1, , pp in UB	6-1-60	- Into
	g' = SUBST (Q, g)		Mostle OD
	if q'does not unify with some		
	genterse already in KB.	*	FOL Sentenics.
	add g' to new	TOWN	
	Ø = NNIFY (q', ~	a)	Occupation (Mily Surgeon) V Occupation
	is \$ is not fail then setup	6	(EM) lawyes
	add new to KB	5)	Occupation (Joe, Actor) > 30 (Occupation (Joe,
	return false.		# Actox)
	ORI OIL TRUSE		
		c)	∀p (occupation (p. Surgeon) -> Occupation(
			Doctos
			THE TO U.S.
		الم	- Ip (Occupation (p , Lawyer) ^ Eustomer (Joe,
		()	- 1 p (occopiono o stanged - Eus omes (sa)
		0)	3p (Bass Cp. Emily) N Occupation (p. lawyex)
		(2)	1) Coass 4) mily is acceptation (p. camper)