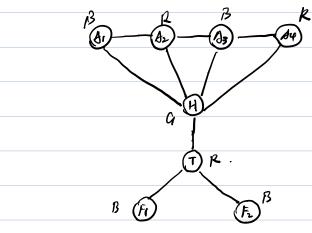
Mγ	riman Algorithm: the evaluation function is a vector of value	5
	for each player, and the backup step selects whichever rector	
_	the lighest values for the value whose turn it is to more.	
Sty	ha- Bota Algorithm. I is the lower bound for MIN and	
,	is the upper bound for MAX. Any branches of MIN that	
•	tradict I or any branches of MAX that contradict & will	,
	pruned.	
	is possible to prune any node because of competitive relation	. 5
bela	cen two players and the assumption that each player will his	5
his	or her best performance.	
Whe	the given constraint is added, it is impossible to prune a	my
pod	the given constraint is added, it is impossible to prune a s, because an unexamined leaf node might be optimal.	fo
bot	n players.	
	<i></i>	

Graph Construction:



 $B_1 = B \rightarrow H = B$, conflict with $A_1 \rightarrow H = Q \rightarrow B_{\psi} = B$ $-7 F_1 = B \rightarrow B_2 = B$, conflict with $A_1 \rightarrow B_2 = Q$, conflict with H $-7 B_2 = B \rightarrow F_2 = B \rightarrow -\cdots$

domain (B, G, R)

3 Salution:

e false	True False True	
·	•	
e Palse	Thus	
	10-UE	
e true	TRUE	
e True	True	
e false	TRUE	
E TRUE	True	
e <i>fa</i> lse	True.	
	E TRUE FALSE TRUE	TRUE TRUE FALSE TRUE TRUE

Later	we	we	7	to	reprosent	true,	f to	refrosent	FALSE .	
					J			0		

b) b	B	C	D	(BAC)Y(BAO)
T	Т	τ	7	7
Ŧ	7	T	F	τ
Ŧ	T	F	T	Τ
7	T	F	۴	7
T	F	T	7	Ţ
T	۴	Т	F	F
T	F	F	T	F
Ŧ	F	F	F	F
F	T	Ī	7	1
F	7	T	F	F
F	T	۴	T	F
F	T	F	F	F
f	F	τ	7	7
F	F	ī	F	F
F	F	F	T	F
F	F	 -	F	F

(c) A	B	С	(A=B) /A/C
T	Ŧ	Ť	T
T	ī	F	F
T	F	7	F
	F	F	F
F	Τ	T	Ţ
F	T	F	F
F	۴	7	F
j.	F	F	F
•	•	·	

cp 8	B	C	D	$(A\Rightarrow B) \Lambda(C\Rightarrow D)$
T	7	τ	7	au
T	7	T	F	F
T	T	F	7	Τ
Ŧ	T	F	F	T
7	F	Ŧ	7	ř
T	F	Т	F	F
	F	F	T	F
T	F	F	F	F
F	7	Ĩ	7	T
F	7	Ŧ	F	F
F	Ţ	۴	T	Ţ
F	Ţ	F	F	au
f	F	T	7	T
F	F	ī	F	F
F	F	f=	T	T
F	F	j÷	۴	7

```
4 Solution:
(a): (1) FALSE
(RAE) = c states that all conservatives are radical and electable
(3) TRUE
R=> (F <=> C) status that if a person is a radical, then he or she is
electable if and only if they are electric.
(ivi) FALSE.
R= ((C=F) V-F) = TRY-CVEY-F, which is always TRUE for
any assignment.
C62 :
(i) is (RAE) => C = ((RAE)=>C ) A (C=>(RAE))
   = [(RAE)=7C] / [7CY (RAE)]
    * [ (RAE) -> c] A (TCYR) A (TCYE)
     = [ TRYTEYC] A (TCYR) A (TCYE)
(ii) Yes. R=> (E (E => C) = ->RY (E=>C) A (C=>E)]
  = -RV[(>EVC) 1 (>CYE)]
= (TRY TEVC) A (TRYTC VE)
(iii) Yes. R=> ((C=)E) YTE) = TRX (TCYEYTE)
          True =7 Irne
```