Student 9d: 1705091

Chapter No: 1

Section No: 2

Problem No: 34

24. Let k be the statement, "kevin is chatting."

Let H be the statement, "Heather is chatting."

Let R be the statement, "Randy is cheating.

Let R be the statement, "Vijay is chatting."

Let A be the statement, "Abby is chatting."

Supponer

1st statement is SI= K-VH

 $s_2 = R \oplus V$

3nd $S_3 = A \rightarrow R$

44h $S_4 = V \longleftrightarrow K$

5th " $S_5 = H \rightarrow (A \land K)$

To get a conclusion C: C= SINSZNSZNSZNSZNSZ

K	† H	\	R	A	S	S ₂	S3	Sų	S ₅	C
1 T	T	7	7	7	1	F	T	+	T	F
1	* +	7	Т	F	+	F	+	1	F	F
- T	T	7	F	7	7	T	F	T	7	F
T	T	T	F	F	7	7	Т	+	F	F
7	7	F	T	T	7	T	T	F	+	F
+	T	F	7	F	7	+	F	F	F	F
+	T	F	F	+	7	F	F	F	T	F
+	T	F	F	F	T	F	7	F	F	F
7	F	T	T	T	T	F	+	7	Т	f
7	F	T	7	F	T	f	Т	7	7	F
7	F	T	F	T	Т	T	F	T	7	F
+	F	T	F	F	T	T	T	T	7	7
7	F	F	T	T	T	T	7	F	1	F
+	k. F	F	T	F	T	T	T	F	T	F
+	F	F	F	T	T	F	F	F	7	F
1	F	F	F	F	T	7	Т	F	Т	F
F	T	1	T	T	7	F	T	F	F	F
F	1	T	17	F	T	F	T	F	F	F
F	T	T	F	T	T	PT	F	F	F	F
F	T	T	F	F	T	PT	T	F	F	F
F	T	F	T	T	T	PT	7	T	F	F
F	7	F	17	F	T	P T	Total Children Control Control	4	F	F
F	1	F	F	T	T	4	F	T	F	F
£	T	F	F	F	T	下	7	T	F	F
F	F	7	7	7	F	F	7	ト	T	F
F	F	T	7	F	F	F	T	F	1	F
F	F	7	F	4	F	T .	۴	F	7	F

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FFFF	F	F	T	T	F	T	F
FFFT	7	F	T	+	4	T	F
FFFT	F	F	7	+	1	T	F
F F F F	7	F	F	F	T	T	F
FFFF		F	F	+	+	7	F

So, Kevin and Vijay are chatting.