

## t48\_bcialg\_5

(TMdfwJ5gzVTqK2pozGX9FcJKVwfzTCsancb)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v3\_bcialg\_1 : \iota \Rightarrow o$  be given. Let  $v4\_bcialg\_1 : \iota \Rightarrow o$  be given. Let  $v5\_bcialg\_1 : \iota \Rightarrow o$  be given. Let  $v7\_bcialg\_1 : \iota \Rightarrow o$  be given. Let  $l2\_bcialg\_1 : \iota \Rightarrow o$  be given. Let  $v20\_bcialg\_1 : \iota \Rightarrow o$  be given. Let  $m1\_bcialg\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v13\_bcialg\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v3\_bcialg\_1 X0) \wedge ((v4\_bcialg\_1 \\ & X0) \wedge ((v5\_bcialg\_1 X0) \wedge ((v7\_bcialg\_1 X0) \wedge (l2\_bcialg\_1 X0)))))) \Rightarrow \\ & (((\neg v2\_struct\_0 X0) \wedge ((v3\_bcialg\_1 X0) \wedge ((v4\_bcialg\_1 X0) \wedge (( \\ & v5\_bcialg\_1 X0) \wedge ((v7\_bcialg\_1 X0) \wedge ((v13\_bcialg\_1 X0) \wedge (l2\_bcialg\_1 \\ & X0))))))) \Rightarrow ((m1\_bcialg\_5 X0 k6\_numbers np\_1 k6\_numbers k6\_numbers) \wedge \\ & (m1\_bcialg\_5 X0 np\_1 k6\_numbers k6\_numbers k6\_numbers))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v3\_bcialg\_1 X0) \wedge ((v4\_bcialg\_1 \\ & X0) \wedge ((v5\_bcialg\_1 X0) \wedge ((v7\_bcialg\_1 X0) \wedge (l2\_bcialg\_1 X0)))))) \Rightarrow \\ & ((v20\_bcialg\_1 X0) \Leftrightarrow (v13\_bcialg\_1 X0)) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v3\_bcialg\_1 X0) \wedge ((v4\_bcialg\_1 \\ & X0) \wedge ((v5\_bcialg\_1 X0) \wedge ((v7\_bcialg\_1 X0) \wedge (l2\_bcialg\_1 X0)))))) \Rightarrow \\ & (((\neg v2\_struct\_0 X0) \wedge ((v3\_bcialg\_1 X0) \wedge ((v4\_bcialg\_1 X0) \wedge (( \\ & v5\_bcialg\_1 X0) \wedge ((v7\_bcialg\_1 X0) \wedge ((v20\_bcialg\_1 X0) \wedge (l2\_bcialg\_1 \\ & X0))))))) \Rightarrow (m1\_bcialg\_5 X0 k6\_numbers np\_1 k6\_numbers k6\_numbers)) \end{aligned}$$