

## t16\_waybel19

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v3\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v4\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v5\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v1\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $v1\_waybel19 : \iota \Rightarrow o$  be given. Let  $l1\_waybel\_9 : \iota \Rightarrow o$  be given. Let  $k1\_waybel19 : \iota \Rightarrow \iota$  be given. Let  $k3\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_pre\_topc : \iota \Rightarrow \iota$  be given. Let  $k2\_borsuk\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $m1\_yellow\_9 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $g1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 \\
 & X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 X0) \wedge (l1\_orders\_2 X0)))))) \Rightarrow \\
 & (\forall X1.((\neg v2\_struct\_0 X1) \wedge ((v3\_orders\_2 X1) \wedge ((v4\_orders\_2 \\
 & X1) \wedge ((v5\_orders\_2 X1) \wedge ((v1\_yellow\_0 X1) \wedge (l1\_orders\_2 X1)))))) \Rightarrow \\
 & (\forall X2.((v2\_pre\_topc X2) \wedge ((v1\_waybel19 X2) \wedge (m1\_yellow\_9 \\
 & X2 X0))) \Rightarrow (\forall X3.((v2\_pre\_topc X3) \wedge ((v1\_waybel19 X3) \wedge (m1\_yellow\_9 \\
 & X3 X1))) \Rightarrow (k1\_waybel19 (k3\_yellow\_3 X0 X1) = u1\_pre\_topc (k2\_borsuk\_1 \\
 & X2 X3))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(l1\_waybel\_9 X0) \Rightarrow ((l1\_pre\_topc X0) \wedge (l1\_orders\_2 X0)) \tag{2}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.(l1\_orders\_2 X0) \Rightarrow (\forall X1.(l1\_waybel\_9 X1) \Rightarrow (( \\
 & m1\_yellow\_9 X1 X0) \Leftrightarrow (g1\_orders\_2 (u1\_struct\_0 X1) (u1\_orders\_2 \\
 & X1) = g1\_orders\_2 (u1\_struct\_0 X0) (u1\_orders\_2 X0))))
 \end{aligned} \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v3\_orders\_2 \\ & X0) \wedge ((v4\_orders\_2 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 X0) \wedge \\ & ((v1\_waybel19 X0) \wedge (l1\_waybel\_9 X0)))))))) \Rightarrow (\forall X1.((\neg v2\_struct\_0 \\ & X1) \wedge ((v2\_pre\_topc X1) \wedge ((v3\_orders\_2 X1) \wedge ((v4\_orders\_2 X1) \wedge \\ & ((v5\_orders\_2 X1) \wedge ((v1\_yellow\_0 X1) \wedge ((v1\_waybel19 X1) \wedge (l1\_waybel\_9 \\ & X1)))))))) \Rightarrow (k1\_waybel19 (k3\_yellow\_3 X0 X1) = u1\_pre\_topc (k2\_borsuk\_1 \\ & X0 X1))) \end{aligned}$$