

# t5\_csspace4 (TMNdaUk- wFfHTVD1iHWt6XoQeEfmk419TDFR)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $k3\_csspace4 : \iota$  be given. Let  $v13\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $v2\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v3\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v4\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v3\_normsp\_0 : \iota \Rightarrow o$  be given. Let  $v4\_normsp\_0 : \iota \Rightarrow o$  be given. Let  $v2\_clvect\_1 : \iota \Rightarrow o$  be given. Let  $v3\_clvect\_1 : \iota \Rightarrow o$  be given. Let  $v4\_clvect\_1 : \iota \Rightarrow o$  be given. Let  $v5\_clvect\_1 : \iota \Rightarrow o$  be given. Let  $v8\_clvect\_1 : \iota \Rightarrow o$  be given. Let  $v3\_clpban1 : \iota \Rightarrow o$  be given. Let  $l2\_clvect\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_csspace3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v9\_clvect\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. & ((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers (u1\_struct\_0 \\ & k3\_csspace4)) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\ & (u1\_struct\_0 k3\_csspace4)))))) \Rightarrow ((v1\_csspace3 X0 k3\_csspace4) \Rightarrow \\ & (v9\_clvect\_1 X0 k3\_csspace4)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & (\neg v2\_struct\_0 k3\_csspace4) \wedge ((v13\_algstr\_0 k3\_csspace4) \wedge (( \\ & v2\_rlvect\_1 k3\_csspace4) \wedge ((v3\_rlvect\_1 k3\_csspace4) \wedge ((v4\_rlvect\_1 \\ & k3\_csspace4) \wedge ((v3\_normsp\_0 k3\_csspace4) \wedge ((v4\_normsp\_0 k3\_csspace4) \wedge \\ & ((v2\_clvect\_1 k3\_csspace4) \wedge ((v3\_clvect\_1 k3\_csspace4) \wedge ((v4\_clvect\_1 \\ & k3\_csspace4) \wedge ((v5\_clvect\_1 k3\_csspace4) \wedge (v8\_clvect\_1 k3\_csspace4)))))))))) \end{aligned} \tag{2}$$

Assume the following.

$$(\neg v2\_struct\_0 k3\_csspace4) \wedge (l2\_clvect\_1 k3\_csspace4) \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v13\_algstr\_0 X0) \wedge ((v2\_rlvect\_1 \\
& X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge ((v3\_normsp\_0 X0) \wedge \\
& ((v4\_normsp\_0 X0) \wedge ((v2\_clvect\_1 X0) \wedge ((v3\_clvect\_1 X0) \wedge ((v4\_clvect\_1 \\
& X0) \wedge ((v5\_clvect\_1 X0) \wedge ((v8\_clvect\_1 X0) \wedge (l2\_clvect\_1 X0)))))))))) \Rightarrow \\
& ((v3\_clpban1 X0) \Leftrightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 \\
& X1 \ k5\_numbers (u1\_struct\_0 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\
& (k2\_zfmisc\_1 \ k5\_numbers (u1\_struct\_0 X0)))))) \Rightarrow ((v1\_csspace3 \\
& X1 X0) \Rightarrow (v9\_clvect\_1 X1 X0)))
\end{aligned} \tag{4}$$

**Theorem 1**

$$\begin{aligned}
& (\neg v2\_struct\_0 \ k3\_csspace4) \wedge ((v13\_algstr\_0 \ k3\_csspace4) \wedge (( \\
& v2\_rlvect\_1 \ k3\_csspace4) \wedge ((v3\_rlvect\_1 \ k3\_csspace4) \wedge ((v4\_rlvect\_1 \\
& k3\_csspace4) \wedge ((v3\_normsp\_0 \ k3\_csspace4) \wedge ((v4\_normsp\_0 \ k3\_csspace4) \wedge \\
& ((v2\_clvect\_1 \ k3\_csspace4) \wedge ((v3\_clvect\_1 \ k3\_csspace4) \wedge ((v4\_clvect\_1 \\
& k3\_csspace4) \wedge ((v5\_clvect\_1 \ k3\_csspace4) \wedge ((v8\_clvect\_1 \ k3\_csspace4) \wedge \\
& ((v3\_clpban1 \ k3\_csspace4) \wedge (l2\_clvect\_1 \ k3\_csspace4))))))))))
\end{aligned}$$