

t9\_borsuk\_5

(TMK2faVANRqLwBJ8nbTCJJyep5PESTatDL7)

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Let  $r5\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. (r5\_zfmisc\_1 X0 X1 X2 X3 X4 X5 X6) \Leftrightarrow ((X0 \neq X1) \wedge ((X0 \neq X2) \wedge \\ & ((X0 \neq X3) \wedge ((X0 \neq X4) \wedge ((X0 \neq X5) \wedge ((X0 \neq X6) \wedge ((X1 \neq X2) \wedge ((X1 \neq X3) \wedge \\ & (X1 \neq X4) \wedge ((X1 \neq X5) \wedge ((X1 \neq X6) \wedge ((X2 \neq X3) \wedge ((X2 \neq X4) \wedge ((X2 \neq X5) \wedge (( \\ & X2 \neq X6) \wedge ((X3 \neq X4) \wedge ((X3 \neq X5) \wedge ((X3 \neq X6) \wedge ((X4 \neq X5) \wedge ((X4 \neq X6) \wedge (X5 \neq \\ & X6)))))))))))))))))))))) \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. (r5\_zfmisc\_1 X0 X1 X2 X3 X4 X5 X6) \Rightarrow (r5\_zfmisc\_1 X0 X1 X4 \\ & X2 X5 X6 X3) \end{aligned}$$