

## t2\_binop\_2 (TMZUYnKaSsKcCdvC- QAUr71jA9ZVf8WWRBLb)

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Let  $k4\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k33\_binop\_2 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $r3\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $c1\_binop\_2 : \iota$  be given. Assume the following.

$$r3\_binop\_1 \ k1\_numbers \ k6\_numbers \ k33\_binop\_2 \tag{1}$$

Assume the following.

$$m1\_subset\_1 \ k6\_numbers \ k1\_numbers \tag{2}$$

Assume the following.

$$\begin{aligned} & (v1\_funct\_1 \ k33\_binop\_2) \wedge ((v1\_funct\_2 \ k33\_binop\_2 \ (k2\_zfmisc\_1 \\ & k1\_numbers \ k1\_numbers) \ k1\_numbers) \wedge (m1\_subset\_1 \ k33\_binop\_2 \\ & (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ (k2\_zfmisc\_1 \ k1\_numbers \ k1\_numbers) \\ & k1\_numbers)))) \tag{3} \end{aligned}$$

Assume the following.

$$c1\_binop\_2 = k6\_numbers \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_funct\_1 \ X1) \wedge ((v1\_funct\_2 \ X1 \ (k2\_zfmisc\_1 \\ & X0 \ X0) \ X0) \wedge (m1\_subset\_1 \ X1 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ (k2\_zfmisc\_1 \\ & X0 \ X0) \ X0)))))) \Rightarrow ((\exists X2. (m1\_subset\_1 \ X2 \ X0) \wedge (r3\_binop\_1 \ X0 \\ & X2 \ X1)) \Rightarrow (\forall X2. (m1\_subset\_1 \ X2 \ X0) \Rightarrow ((X2 = k4\_binop\_1 \ X0 \ X1) \Leftrightarrow \\ & (r3\_binop\_1 \ X0 \ X2 \ X1)))) \tag{5} \end{aligned}$$

**Theorem 1**  $k4\_binop\_1 \ k1\_numbers \ k33\_binop\_2 = k6\_numbers.$