

**decidable\_ex\_int\_seg**<sup>13,42</sup>

$\forall i, j: \mathbb{Z}, F: (\{i..j^-\} \rightarrow \mathbb{P}\{u\}). (\forall k: \{i..j^-\}. \text{Dec}(F(k))) \Rightarrow \text{Dec}(\exists k: \{i..j^-\}. F(k))$