

```

// Example of implementing a binary search algorithm.
//
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final class Table of X
require X has total operator ~~(arg) end
^=
abstract
  var members: seq of X;

  // Invariant states that the members are in a non-decreasing order
  invariant members.isndec;

interface
  // Find the index of the first element that ranks with or below the
  parameter
  function search(x: X): nat
    satisfy result <= #members,
      forall z::0..

```