*(@template arb-tree encapsulated genrec try-catch)*

**(define (solvable? m)**

**;; base case:**

**;; reduction:**

**;; argument:**

**(local [(define (fn-for-pos p)**

**(if (solved? p)   
 true**

**(fn-for-lop (valid-next-positions p))))**

**(define (fn-for-lop lop)**

**(cond [(empty? lop) false]**

**[else**

**(local [(define try (fn-for-pos (first lop)))]**

**(if (not (false? try))**

**try**

**(fn-for-lop (rest lop))))]))]**

**(fn-for-pos (make-pos 0 0))))**