

(@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))))
```