```
BLOCK entry {
                                                                            goal_x <- §{0}§[current_x];</pre>
                                                                            GOTO inter0
                                                                          BLOCK inter0 {
                                                                            goal_y <- §{0}§[current_y];</pre>
                                                                            GOTO inter1
                                                                                BLOCK inter1 {
                                                                                   GOTO loop_head
                                                       BLOCK loop_head {
                                                         direction <- §SELECT d.dir</pre>
                                                                               squares AS s NATURAL JOIN directions AS d
                                                                        FROM
                                                                        WHERE s.x = \{0\}
                                                                               s.y = {1}\s[current_x, current_y];
                                                                        AND
                                                         GOTO inter2
                                                     BLOCK inter2 {
                                                       EMIT §({0}, {1})§[current_x, current_y];
                                                       GOTO inter3
                                             BLOCK inter3 {
                                                current_x <- §{0} + {1}.x§[current_x, direction];</pre>
                                                GOTO inter4
                                  BLOCK inter4 {
                                    current_y <- §{0} + {1}.y§[current_y, direction];</pre>
                                    GOTO inter5
BLOCK inter5 {
  IF \S{0} = \{1\} AND \{2\} = \{3\} OR \{4\} IS NULL\S[current_x, goal_x, current_y, goal_y, direction]
  THEN GOTO truthy0
  ELSE GOTO falsey0
                                          BLOCK truthy0 {
                                                                                BLOCK falsey0 {
                                                                                  JUMP loop_head
                                            STOP
```