

Appendix A Karel Reference Card



This appendix defines the structure of the Karel programming language on a single page.

```
Built-in Karel commands:
                                          Conditional statements:
 move();
                                            if (condition) {
 turnLeft();
                                                statements executed if condition is true
 putBeeper();
 pickBeeper();
                                            if (condition) {
Karel program structure:
                                                statements executed if condition is true
                                                statements executed if condition is false
   * Comments may be included anywhere in
                                            }
   * the program between a slash-star and
   * the corresponding star-slash characters.
                                          Iterative statements:
                                            for (int i = 0; i < count; i++) {</pre>
 import stanford.karel.*;
                                                statements to be repeated
                                            }
 /* Definition of the new class */
                                            while (condition) {
 public class name extends Karel {
                                                statements to be repeated
     public void run() {
                                            }
        statements in the body of the method
                                          Method definition:
                                            private void name () {
     definitions of private methods
                                                statements in the method body
 }
                                            }
Karel condition names:
                                          New commands in the SuperKarel class:
                                            turnRight();
frontIsClear()
                   frontIsBlocked()
                                            turnAround();
leftIsClear()
                   leftIsBlocked()
                                            paintCorner(color);
rightIsClear()
                   rightIsBlocked()
beepersPresent() noBeepersPresent()
                   noBeepersInBag()
beepersInBag()
                                          New conditions in the SuperKarel class:
facingNorth()
                   notFacingNorth()
                                            random()
facingEast()
                   notFacingEast()
                                            random(p)
facingSouth()
                   notFacingSouth()
                                            cornerColorIs(color)
facingWest()
                   notFacingWest()
```