

Instruction:

move	pickbeeper
turnleft	putbeeper
	turnoff

Conditions:

facing-north	front-is-clear
not-facing-north	front-is-blocked
facing-east	right-is-clear
not-facing-east	right-is-blocked
facing-south	left-is-clear
not-facing-south	left-is-blocked
facing-west	next-to-a-beeper
not-facing-west	not-next-to-a-beeper
	any-beepers-in-beeper-bag
	no-beepers-in-beeper-bag

Control Instructions:

<instruction>

BEGIN *<instruction>* *<instruction>* END

ITERATE *<number>* TIMES *<instruction>*

WHILE *<condition>* DO *<instruction>*

DEFINE-NEW-INSTRUCTION *<name>* AS *<instruction>*

IF *<condition>* THEN
 <instruction>

ELSE
 <instruction>