The Mole

Port 1: touch sensor
Port 2: 
Port 3: 
Port 4: 
Port A: motor
Port B: lamp
Port C: motor

This is a very simple robot that abstracts the behavior of a mole. Once started, this program simply propels the robot forward until the touch sensor is pressed, and then it stops.

In this version, a few additions are made to the previous one. In this case, when the mole encounters a shovel in the ground (the touch sensor is pressed), it backs up for one second and then stops. In addition, a lamp mounted on the robot indicates forward motion in progress.

Turn on the lamp.
Turn both motors on, going forward at full speed.
Wait until the touch sensor is pressed.
Turn off the lamp.
Reverse the direction of both motors and wait for 1 second. The motors continue to run during this time.
Stop everything.
This is the end of the program.

Turn on the lamp.