

Sensing

Volume & Speed Quiz

NAME _____ DATE _____

1. The program below makes the robot:

```
1  const tSensors soundSensor          = (tSensors) S1;
2
3  task main()
4  {
5      motor[motorC] = SensorValue(soundSensor);
6      motor[motorB] = SensorValue(soundSensor);
7      wait1Msec(10000);
8  }
```

- travel at a speed that varies continually based on the value of the sound sensor, for 1 second.
- travel at a set speed based of the initial value of the sound sensor, for ten seconds.
- travel at a speed that varies continually based on the value of the sound sensor, for 10 seconds.
- travel at a set speed based of the initial value of the sound sensor, for one second.

2. Explain, in terms of “values”, why the amount of sound you made affected how quickly the robot moved in the Speed Based on Volume program.