Ping Project:

Create your own maze using pieces of wood, or books, or something else as obstructions. Then program your robot to make its way through it by the following method:

Go straight until you get within … inches of an obstruction.

Turn left 45 degrees and measure the distance of the free path.

Turn back to your original heading and then 45 degrees further to the right and measure the free path.

Follow the longer path.