# Obstacle avoidance: sketch of a (simple) solution.

## Sense

- Read the proximity sensors.
- Determine if obstacle in front.

## ► Think

▶ If obstacle, select a direction and a number of steps to turn.

### Act

- No obstacle? Go straight.
- Otherwise turn in the direction chosen in "Think" section.

# Obstacle avoidance: sketch of an other (better) solution.

#### Sense

▶ Read the proximity sensors.

### ► Think

- Transform the proximity readings (length and angle) into cartesian coordinates (x,y).
- Sum the coordinates in an accumulator vector.
- ▶ Compute length and angle of the accumulator vector.

#### Act

- Turn depending on length and angle of the accumulator vector
  - ▶ Length: the longer the vector, the closer the obstacle.
  - Angle: the smaller the angle, the quicker the turn.