

Pond Duck My Duck

Name : _____

Now see if you can create your own duck, either using
blocks script or text.

You can plan your script in the area below.

Blockly Pond Challenges Starter

Rook

How does he behave?	Strengths?	Weaknesses?

Counter

How does he behave?	Strengths?	Weaknesses?

Sniper

How does he behave?	Strengths?	Weaknesses?

Pond Duck example 1

Name : Random Shooter

```
var direction, distance;

while (true) {
  direction = Math.random() * 360;
  distance = scan(direction);
  while (distance < 361) {
    cannon(direction, distance);
    distance = scan(direction);
  }
}
```

What do you like about this duck's code? What needs improving?

Pond Duck example 2

Name : Square Mover

```
var heading, direction;

heading = 1;
direction = 1;
while (true) {
  if (heading < 100) {
    swim(0);
  } else if (heading < 200) {
    swim(270);
  } else if (heading < 300) {
    swim(180);
  } else if (heading < 400) {
    swim(90);
  } else {
    heading = 0;
  }
  heading = heading + 0.5;
  cannon(direction, scan(direction));
  direction = direction + 3;
  if (direction > 360) {
    direction = 0;
  }
}
```

What do you like about this duck's code? What needs improving?