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Programming  
January 22, 2017

## PUZZLE 1

```
function downSevenTimes  
function rightFiveTimes  
function upTwoTimes  
function rightTwoTimes
```

*Function Definition (Left)*

```
function downSevenTimes {  
    down  
    down  
    down  
    down  
    down  
    down  
    down  
}  
function rightFiveTimes {  
    right  
    right  
    right  
    right  
    right  
}  
function upTwoTimes {  
    up  
    up  
}  
function rightTwoTimes {  
    right  
    right  
}
```

## PUZZLE 2

```
function downSixTimes  
function rightThreeTimes  
function upTwoTimes  
function rightTwoTimes  
down  
down  
down
```

*Function Definition (Left)*

```
function downSixTimes {  
    down  
    down  
    down  
    down  
    down  
}  
function rightThreeTimes {  
    right  
    right  
    right  
}  
function upTwoTimes {  
    up  
    up  
}  
function rightTwoTimes {  
    right  
    right  
}
```

### PUZZLE 3

```
function downTwoTimes
var firstColorSeen = getColor
function downThreeTimes
function rightThreeTimes
setColor(firstColorSeen)
right
up
```

### PUZZLE 4

```
right
function downFourTimes
var firstColorSeen = getColor
down
right
setColor(firstColorSeen)
right
up
right
var secondColorSeen = getColor
down
right
setColor(secondColorSeen)
right
```

### PUZZLE 5

```
function rightTwoTimes

if (getColor == "blue") {
  down
} else {
  up
}

function rightTwoTimes

if (getColor == "blue") {
  down
} else {
  up
}

right
right
right
```

## PUZZLE 6

```
right
if (getColor == "red") {
  up
  up
  up
  left
  up
} else {
if (getColor == "blue") {
  down
  down
  down
  left
  down
}
}
```

## PUZZLE 7

```
while (getColor != "red") {
  down
}
function rightTwoTimes
while (getColor != "red") {
  up
}
function rightTwoTimes
while (getColor != "red") {
  down
}
function rightTwoTimes
while (getColor != "red") {
  up
}
function rightTwoTimes
while (getColor != "red") {
  down
}
}
right
```

## PUZZLE 8

```
var steps = 0
while (steps < 8) {
  down
  steps = steps + 1
}
function rightTwoTimes
var steps = 0
while (steps < 8) {
  up
  steps = steps + 1
}
function rightTwoTimes
var steps = 0
while (steps < 8) {
  down
  steps = steps + 1
}
function rightTwoTimes
var steps = 0
while (steps < 8) {
  up
  steps = steps + 1
}
function rightTwoTimes
var steps = 0
while (steps < 8) {
  down
  steps = steps + 1
}
right
```

## PUZZLE 9

```
var steps = 0
while (steps < 9) {
  right
  setColor
}
var steps = 0
while (steps < 9) {
  down
  setColor
}
var steps = 0
while (steps < 9) {
  left
  setColor
}
var steps = 0
while (steps < 9) {
  up
  setColor
}
```