

DO NOT WRITE ON THIS PAGE. FILL IN THE MISSING CODE ON THE ANSWER SHEET.

Stage 13: The Farmer 2

Fill in the missing code.

Stage 13: The Farmer 2

Puzzle 1

```
dig();  
moveForward();  
fill();  
moveForward();  
dig();  
turnLeft();  
moveForward();  
turnLeft();  
dig();  
moveForward();  
fill();  
moveForward();  
dig();  
turnRight();  
moveForward();  
turnRight();  
dig();  
moveForward();  
moveForward();  
dig();
```

```
turnLeft();  
  
moveForward();  
  
turnLeft();  
  
dig();  
  
moveForward();  
  
moveForward();
```

Puzzle 2

```
for (var count = 0; count < 5; count++) {  
    fill();  
}  
  
}  
  
moveForward();  
  
fill_5();
```

Puzzle 3 - Tricky

```
function fill_5() {  
  for (var count2 = 0; count2 < 5; count2++) {  
    fill();  
  }  
}  
  
for (var count = 0; count < 5; count++) {  
  moveForward();  
  
  _____  
}
```

Puzzle 4 - Tricky

```
function remove_7() {  
  for (var count2 = 0; count2 < 7; count2++) {  
    dig();  
  }  
}
```

```
function fill_5() {  
  for (var count3 = 0; count3 < 5; count3++) {  
    fill();  
  }  
}
```

```
for (var count = 0; count < 4; count++) {  
  _____  
  moveForward();  
  turnLeft();  
  moveForward();  
  turnRight();  
}
```

Puzzle 5 - Tricky

```
function remove_6() {  
  for (var count2 = 0; _____; count2++) {  
    dig();  
  }  
}  
  
for (var count = 0; count < 3; count++) {  
  moveForward();  
  remove_6();  
  moveForward();  
}
```

Puzzle 6

```
function remove_8() {  
    for (var count2 = 0; count2 < 8; count2++) {  
        dig();  
    }  
}  
  
function fill_8() {  
    for (var count3 = 0; count3 < 8; _____) {  
        fill();  
    }  
}  
  
remove_8();  
  
for (var count = 0; count < 7; count++) {  
    moveForward();  
}  
  
fill_8();
```

Puzzle 7

```
function _____{  
    turnLeft();  
    moveForward();  
    turnRight();  
    moveForward();  
    moveForward();  
    turnRight();  
    moveForward();  
    dig();  
}
```

```
avoid_the_cow_and_remove_1();
```

Puzzle 8

```
function avoid_the_cow_and_remove_1() {  
    turnLeft();  
    moveForward();  
    turnRight();  
    moveForward();  
    moveForward();  
    turnRight();  
    moveForward();  
  
    _____  
    turnLeft();  
}  
  
for (var count = 0; count < 3; count++) {  
    avoid_the_cow_and_remove_1();  
}
```


Puzzle 9

```
function remove_stack_of_4_piles() {  
    turnLeft();  
    for (var count2 = 0; count2 < 4; count2++) {  
        dig();  
        moveForward();  
    }  
    turnRight();  
    turnRight();  
    for (var count3 = 0; count3 < 4; count3++) {  
        moveForward();  
    }  
    turnLeft();  
}  
  
for (var count = 0; count < 6; count++) {  
    _____  
    moveForward();  
}
```

Puzzle 10 - Very Difficult

```
turnLeft();

for (var count2 = 0; count2 < 4; count2++) {
    dig();
    moveForward();
}

turnRight();

turnRight();

for (var count3 = 0; count3 < 4; count3++) {
    moveForward();
}

turnLeft();
}

function fill_stack_of_2_holes() {
    turnLeft();

    for (var count4 = 0; count4 < 2; count4++) {
        fill();
        moveForward();
    }

    turnRight();

    turnRight();

    for (var count5 = 0; count5 < 2; count5++) {
        moveForward();
    }
}
```

```
turnLeft();  
}  
  
for (var count = 0; count < 7; count++) {  
    if (pilePresent()) {  
        remove_stack_of_4_piles();  
    } else {  
        fill_stack_of_2_holes();  
    }  
    moveForward();  
}
```