**1**

console.log(hello);

var hello = 'world';

**my prediction:**

var hello;

console.log(hello);

hello = 'world';

----

undefined

**output:**

undefined

**2**

var needle = 'haystack';

test();

*function* test(){

    var needle = 'magnet';

    console.log(needle);

}

**my prediction:**

magnet

**output:**

magnet

**3**

var brendan = 'super cool';

*function* print(){

    brendan = 'only okay';

    console.log(brendan);

}

console.log(brendan);

**my prediction:**

super cool

**output:**

super cool

**4**

var food = 'chicken';

console.log(food);

eat();

*function* eat(){

    food = 'half-chicken';

    console.log(food);

    var food = 'gone';

}

**my prediction:**

chicken

half-chicken

**output:**

chicken

half-chicken

**5**

mean();

console.log(food);

var mean = function() {

    food = "chicken";

    console.log(food);

    var food = "fish";

    console.log(food);

}

console.log(food);

**my prediction:**

error

**output:**

mean is not a function

**6**

console.log(genre);

var genre = "disco";

rewind();

*function* rewind() {

    genre = "rock";

    console.log(genre);

    var genre = "r&b";

    console.log(genre);

}

console.log(genre);

**my prediction:**

undefined

rock

r&b

disco

**output:**

undefined

rock

r&b

disco

**7**

dojo = "san jose";

console.log(dojo);

learn();

*function* learn() {

    dojo = "seattle";

    console.log(dojo);

    var dojo = "burbank";

    console.log(dojo);

}

console.log(dojo);

**my prediction:**

san jose

seattle

Burbank

san jose

**output:**

san jose

seattle

burbank

san jose

**8 - Bonus ES6: const**

console.log(makeDojo("Chicago", 65));

console.log(makeDojo("Berkeley", 0));

*function* makeDojo(name, students){

    const dojo = {};

    dojo.name = name;

    dojo.students = students;

    if(dojo.students > 50){

        dojo.hiring = true;

    }

    else if(dojo.students <= 0){

        dojo = "closed for now";

    }

    return dojo;

}

**my prediction:**

{ name: 'Chicago', students: 65, hiring: true }

Error

**output:**

{ name: 'Chicago', students: 65, hiring: true }

C:\Users\nouff\Desktop\Hoisting.js:11

dojo = "closed for now";

^

TypeError: Assignment to constant variable.