

Testing Your Interpreter, Part 2

Here are some tests for your interpreter.

Test 1: This code should return 20.

```
var x = 10;
{
  var y = 2;
  var z = x * y;
  x = z;
}
return x;
```

Test 2: This code should return 164.

```
var a = 31160;
var b = 1476;
if (a < b) {
  var temp = a;
  a = b;
  b = temp;
}
var r = a % b;
while (r != 0) {
  a = b;
  b = r;
  r = a % b;
}
return b;
```

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Test 3: This code should return 32.

```
var x = 0;
var y = 10;
while (!(x >= y) || !(y > 25)) {
  x = x + 2;
  y = y + 1;
}
return x;
```

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Test 4: This code should return 2.

```
var x = 1;
var y = x + 1;
if (x < y) {
  var z = 10;

  if (x < z) {
    var swap = y;
    y = x;
    x = swap;
  }
}
return x;
```

Test 5: This code should give an error.

```
var x = 10;
var y = 4;
if (x < y) {
  var min = x;
}
```

```
else {
    var min = y;
}
return min;
```

Test 6: This code should return 25.

```
var x = 0;
x = x + 25;
return x;
x = x + 25;
return x;
x = x + 25;
return x;
```

Test 7: This code should return 21.

```
var x = 0;
var result = 0;

while (x < 10) {
    if (result > 15) {
        return result;
    }
    result = result + x;
    x = x + 1;
}
return result;
```

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Test 8: This code should return 6.

```
var x = 0;
while (x < 6) {
    x = x + 1;
    continue;
    x = x + 100;
}
return x;
```

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Test 9: This code should return -1.

```
var x = 0;
while (x < 10) {
    x = x - 1;
    break;
    x = x + 100;
}
return x;
```

Test 10: This code should return 789.

```
var x = 0;
var y = x;
var z = y;
while (1 == 1) {
    y = y - x;
    while (2 == 2) {
        z = z - y;
        while (3 == 3) {
            z = z + 1;
            if (z > 8)
                break;
            else
                continue;
        }
    }
}
```

```

    }
    y = y + 1;
    if (y <= 7)
        continue;
    else
        break;
}
x = x + 1;
if (x > 6)
    break;
else
    continue;
}
return x * 100 + y * 10 + z;

```

Test 11: This code should give an error.

```

var x = 0;
while (x < 10) {
    var y = 0;
    x = x + 1;
    y = y - 1;
    break;
}
if (x > 0) {
    x = y;
}
return x;

```

Test 12: This code should give an error.

```

var x = 1;
var y = 2;
if (x < y) {
    var z = 0;
    while (z < 100) {
        var a = 1;
        z = z + a;
        continue;
        z = 1000;
    }
    if (z != x) {
        z = a;
    }
}
return x;

```

Test 13: This code should give an error.

```

var x = 1;
break;
return x;

```

Test 14: This code should return 12.

```

var x = 1;
while (true) {
    x = x + 1;
    if (x > 10 && x % 2 == 0)
        break;
}
return x;

```

Test 15 should return 125.

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```

var x;

try {
    x = 20;
    if (x < 0)
        throw 10;
    x = x + 5;
}
catch(e) {
    x = e;
}
finally {
    x = x + 100;
}
return x;

```

Test 16 should return 110.

```

var x;

try {
    x = 20;
    if (x > 10)
        throw 10;
    x = x + 5;
}
catch(e) {
    x = e;
}
finally {
    x = x + 100;
}
return x;

```

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Test 17 should return 2000400.

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```

var x = 0;
var j = 1;

try {
    while (j >= 0) {
        var i = 10;
        while (i >= 0) {
            try {
                if (i == 0)
                    throw 10000000;
                x = x + 10*i / i;
            }
            catch(e) {
                if (j == 0)
                    throw 10000000;
                x = x + e / j;
            }
            i = i - 1;
        }
        j = j - 1;
    }
}
catch (e2) {
    x = x * 2;
}
return x;

```

Test 18 should return 101.

```

var x = 10;

```

```

var result = 1;

try {
    while (x < 10000) {
        result = result - 1;
        x = x + 10;

        if (x > 1000) {
            throw x;
        }
        else if (x > 100) {
            break;
        }
    }
}
finally {
    result = result + x;
}
return result;

```

Test 19 should give an error.

```

var x = 10;
var result = 1;

try {
    while (x < 10000) {
        result = result - 1;
        x = x * 10;

        if (x > 1000)
            throw x;
    }
}
catch (ex) {
    throw 1;
}
return result;

```

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Additional Test for Those Seeking an Extra Challenge

Test 20: This code should return 21.

```

var x = 0;
while ((x = x + 1) < 21)
    x = x;
return x;

```