Area of a Triangle

Write a function that takes the base and height of a triangle and return its area.

Examples

```
triArea(3, 2) \rightarrow 3
```

```
Index.ju > f triangle is:3

1 - function triangle(x, y) {
2    let area;
3    area = 1 / 2 * (x * y)
4    console.log("Area of triangle is:"+area)
5  }
6
7 triangle(2, 3)

Area of triangle is:3
Hint: hit control+c anytime to enter REPL.

8

1 - function triangle is:3
Hint: hit control+c anytime to enter REPL.

9

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3    area = 1 / 2 * (x * y)
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5    area = 1 / 2 * (x * y)

6    triangle(2, 3)
```

 $triArea(7, 4) \rightarrow 14$

 $triArea(10, 10) \rightarrow 50$

```
I - function triangle(x, y) {

1 - function triangle(x, y) {

2    let area;

3    area = 1 / 2 * (x * y)

4    console.log("Area of triangle is:"*area)

5  }

6

7  triangle(10, 10)
```

- The area of a triangle is: (base * height) / 2
- Don't forget to return the result.

Return Something to Me!

Write a function that returns the string "something" joined with a space " " and the given argument a.

Examples

giveMeSomething("is better than nothing") →"something is better than

nothing" giveMeSomething("Bob Jane") →"something Bob Jane"

giveMeSomething("something") \rightarrow "something something

Basketball Points

You are counting points for a basketball game, given the amount of 2-pointers scored and 3-pointers scored, find the final points for the team and return that value.

```
points(1, 1) \rightarrow5
```

```
points(7, 5) \rightarrow 29
```

```
index.js

index.js

function basketball(x, y) {
    let point;
    point = x*2+y*3;
    return "The points you scored is:"+point;
}

console.log(basketball(7,5))

index.js

index.
```

points (38, 8) \rightarrow 100

Less Than 100?

Given two numbers, return true if the sum of both numbers is less than 100.

Otherwise return false. **Examples**

```
lessThan100(22, 15) \rightarrowtrue
// 22 + 15 = 37
```

```
lessThan100(83, 34) \rightarrow false
```

```
// 83 + 34 = 117
```

```
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m index.js
                                                                      int: hit control+c anytime to enter REPL.
                                                                                                                    QÊ
 1 - function number(x, y) {
       let point;
       point = x+y;
 4 - if (point<189){
 5
        return true;
      }else{
         return false;
 9
 10 }
 11 console.log(number(83,34))
```

lessThan100(3, 77) \rightarrow true

Add up the Numbers from a Single Number

Create a function that takes a number as an argument. Add up all the numbers from 1 to the number you passed to the function. For example, if the input is 4 then your function should return 10 because 1 + 2 + 3 + 4 = 10.

Examples

addUp(4) \rightarrow 10

addUp(13) \rightarrow 91

addUp(600) →180300

Expect any positive number between 1 and 1000.

Oddish vs. Evenish

Create a function that determines whether a number is **Oddish** or **Evenish**. A number is **Oddish** if the sum of all of its digits is odd, and a number is **Evenish** if the sum of all of its digits is even.

If a number is **Oddish**, return "Oddish". Otherwise, return "Evenish".

```
For example, oddishOrEvenish (121) should return "Evenish", since 1 + 2 + 1 = 4. oddishOrEvenish (41) should return "Oddish", since 4 + 1 = 5.
```

```
oddishOrEvenish(43) →"Oddish"
// 4 + 3 = 7

// 7 % 2 = 1

oddishOrEvenish(373) →"Oddish"

// 3 + 7 + 3 = 13

// 13 % 2 = 1

oddishOrEvenish(4433) →"Evenish"

// 4 + 4 + 3 + 3 = 14

// 14 % 2 = 0
```

```
>_ Console - x @ Shell x +
E index.js ~ □ × +
mindex.js > f number > __
                                                                     Enter any positive number> 67
                                                                      Nint: hit control⇒c amytime to enter REPL.
 1 - function number(x) {
      let a:
       a = x % 10;
     b = a / 10;
     let div = a + b;
  6 - if (div $ 2 == 0) {
         return "evenish";
  8 - } else {
 0
        return "oddish";
 10 }
 11 }
 12 let num = parseInt(prompt("Enter any positive number"));
 13 console.log(number(num))
```

Any Prime Number in Range

Create a function that returns true if there's at least one prime number in the given range

```
(n1 to n2 (inclusive)), false otherwise. Examples
primeInRange(10, 15) →true //
Prime numbers in range: 11, 13
primeInRange(62, 66) →false
// No prime numbers in range.
```

Notes

•n2 is always greater than n1.

// Prime numbers in range: 3, 5

primeInRange(3, 5) →true

- ●n1 and n2 are always positive.
- 0 and 1 aren't prime numbers.

Left Shift by Powers of Two

The left shift operation is similar to multiplication by powers of two.

Sample calculation using the left shift operator (<<):

```
10 << 3 = 10 * 2^3 = 10 * 8 = 80

-32 << 2 = -32 * 2^2 = -32 * 4 = -128

5 << 2 = 5 * 2^2 = 5 * 4 = 20
```

Write a function that mimics (without the use of <<) the left shift operator and returns the result from the two given integers.

```
shiftToLeft(5, 2) \rightarrow 20
shiftToLeft(10, 3) \rightarrow 80
```

```
index.js > f number > __
index.js > f num
```

```
shiftToLeft(-32, 2) \rightarrow -128
shiftToLeft(-6, 5) \rightarrow -192
shiftToLeft(12, 4) \rightarrow 192
shiftToLeft(46, 6) \rightarrow 2944
```

- There will be no negative values for the second parameter y.
- This challenge is more like recreating the left shift operation, thus, the use of the operator directly is prohibited.
- Alternatively, you can solve this challenge via recursion.

```
Mint: hit control+c anytime to enter REPL.
index.js > f primeirrange > ...
 1 - function primeinrange(x, y) {
       let bool = true
 3 - for (let z = x; z < y; z++) {
       for (let x = 2; x < z; x++) {
 5 -
         if (z % x --- 0) {
            bool = false
 B
           bool = true
 9
        }
 10 }
 return bool;
 13 console.log(primeinrange(4, 8));
```

Convert a Number to Base-2

Create a function that returns a base-2 (binary) representation of a base-10 (decimal) string number. To convert is simple: ((2) means base-2 and (10) means base-10) 010101001(2) = 1 + 8 + 32 + 128.

Going from right to left, the value of the most right bit is 1, now from that every bit to the left will be x2. The values of an 8 bit binary number are (256, 128, 64, 32, 16, 8, 4, 2, 1).

```
binary(1) → "1"
// 1*1 = 1
```

- Numbers will always be below 1024 (not including 1024).
- The && operator could be useful.
- The strings will always go to the length at which the most left bit's value gets bigger than the number in decimal.
- If a binary conversion for 0 is attempted, return "0".