Exercises

Write a function printRange(n, m) that:

• Prints all the numbers from **n** to **m**

Write a function printEveryThirdInRange(n, m) that:

Prints every third number from n to m

Write a function

printEveryXInRange(n, m, x)

that:

Prints every x number from n to m

Write a function printEveryXInRangeBackwards(n, m, x) that:

 Prints every x number from n to m backwards

Write a function printDivisibleRange(n, m, x) that:

 Prints every number from **n** to **m** that is divisible by **x**

Hint: Check out the remainder (%) operator

Write a function printPattern(n) that prints the following patterns:

printPattern(2)	printPattern(3)	printPattern(4)
* *	* * *	* * * *
* *	* * *	* * * *
	* * *	* * * *
		* * * *

Write a function printPattern(n, m) that prints the following patterns:

Write a function printPattern(m)

that prints the following patterns:

printPattern(2)	printPattern(3)	printPattern(4)			
	*	*			
*	•	* * *			
	* *				
* *	* * *	* * * *			
*	* *	* * *			
	d.	* *			
	*	*			

Write a function printTable(n, m)

that:

Produces multiplication tables

printTable(2, 4)					printTable(3, 4)			printTable(4, 4)				
1	2	3	4		1	2	3	4	1	2	3	4
2	4	6	8		2	4	6	8	2	4	6	8
					3	6	9	12	3	6	9	12
									4	8	12	16

Write a function isPalindrome(num) that:

• Return **true** if the input number is a palindrome (1234321, 456654, 121)

Write a function isPalindrome(str) that:

- Returns true if the input string is a palindrome ("racecar", "kayak")
- Is case insensitive ("Racecar", "kAyak")
- Supports spaces ("Rats live on no evil star")

Write a function wordCount(str) that:

Returns the number of words in a string

Write a function repeat(str, n) that:

Returns a new string that is repeated n times

Write a function reverseWords(str)

that:

 Reverses every word of a string and returns the result

Example:

"I am a happy dog" => "i ma a yppah god"

Write a function capitalize(str) that:

Returns a capitalized version of the string provided

Examples:

"helloworld" => "Helloworld" "hElLOWoRLd" => "Helloworld"

Write a function areaOfCircle(r) that:

 Returns the calculated area of a circle with radius r

Write a function **exponent(base, exp)** that:

Returns the result of base

Examples:

$$8^{2} = 8 * 8 = 64$$

 $4^{3} = 4 * 4 * 4 = 64$