



Tracks

Exercises

Tour of concepts

My Journey

Welcome back, User One! You are at the right place...

My Tracks:

JavaScript ▼

C

Python

[Take me where I left](#)

Take a dry run...

Learn to read and understand
code

(30 of 79 Exercises
completed)

Can you Fix it??

Learn how to uncover logical
mistakes

(30 of 79 Exercises completed)

Want to Solve it?

Learn how to write correct code
and improve upon it

(0 of 50 Exercises completed)



Home

Exercices

Tour of concepts

My Journey

[Tracks/JavaScript/Dry-Run](#)

Dry Run Exercices ...

Unlock more exercises as you progress. They're great practice and fun to do!

Search by title

All Exercises 139

✓ Completed 1

● In Progress 0

○ Available 51

🔒 Locked 87



Lucian's Luscious Lasagna

Recommended

💡 Learning Exercise



Learn the basics of JavaScript cooking a brilliant lasagna from your favorite cooking book.



Scrabble Score

Available

■ Medium



Given a word, compute the Scrabble score for that word.



Allergies

Available

■ Medium



Given a person's allergy score, determine whether or not they're allergic to a given item, and their full list of allergies.



Word Count

Available

■ Easy



Given a phrase, count the occurrences of each word in that phrase.

[Explore](#)



Bank Account

Available

■ Easy



Simulate a bank account supporting opening/closing, withdrawals, and deposits of money. Watch out for concurrent transactions!



Perfect Numbers

Available

■ Easy



Determine if a number is perfect, abundant, or deficient based on Nicomachus' (60 - 120 CE) classification scheme for positive...

[Home](#)[Exercices](#)[Tour of concepts](#)[My Journey](#)[Tracks/JavaScript/Dry-Run/Word Count](#)[Instructions](#)

Code Viewer

```
function WordCount(str) {  
  var totalSoFar = 0;  
  for (var i = 0; i < str.length; i++)  
    if (str.charAt(i) === " ") { // if a space is found in  
str  
      totalSoFar = +1; // add 1 to total so far  
    }  
    totalSoFar += 1; // add 1 to totalsoFar to account  
for extra space since 1 space = 2 words  
    return totalSoFar;  
}  
  
console.log(WordCount("Random String"));
```

Dry Run Steps

What will be the ouput?

What will be the output if we change the last line as :

1. console.log(WordCount("Random String")); 2. console.log(WordCount("Random\t\tString")); 3. console.log(WordCount("3 parrots on a tre

Feedback



You are doing great! Please continue....

[Home](#)[Exercises](#)[Tour of concepts](#)[My Journey](#)[Tracks/JavaScript/Dry-Run/Word Count](#)[Instructions](#)

Code Viewer

```
function WordCount(str) {  
  var totalSoFar = 0;  
  for (var i = 0; i < str.length; i++)  
    if (str.charAt(i) === " ") { // if a space  
      totalSoFar = +1; // add 1 to total so far  
    }  
  totalSoFar += 1; // add 1 to total so far for extra space since 1 space = 2 words  
  return totalSoFar;  
}  
  
console.log(WordCount("Random String"));
```

Dry Run Steps

What will be the output?

Instructions

The current program tries to count words in a given string. Try to read and understand the program and answer the questions in 'Dry Run Steps'.

1. Each answer carries certain marks.
2. It is necessary to answer all the questions for this exercise to be completed.
3. 'Mark Complete' button will be enabled only when you answer all the questions correctly.

Best of luck! And Happy Learning!

Last line as :

ing));

tre

Close

Feedback



You are doing great! Please continue....



Home

Exercices

Tour of concepts

My Journey

[Tracks/JavaScript/Debugging](#)

Debugging Exercices ...

Unlock more exercises as you progress. They're great practice and fun to do!

Search by title

All Exercises 139

Completed 1

In Progress 0

Available 51

Locked 87



Lucian's Luscious Lasagna

Recommended

Learning Exercise

Learn the basics of JavaScript cooking a brilliant lasagna from your favorite cooking book.



Scrabble Score

Available

Medium

Given a word, compute the Scrabble score for that word.



Allergies

Available

Medium

Given a person's allergy score, determine whether or not they're allergic to a given item, and their full list of allergies.



Word Count

Available

Easy

Given a phrase, count the occurrences of each word in that phrase.

[Explore](#)



Bank Account

Available

Easy

Simulate a bank account supporting opening/closing, withdraws, and deposits of money. Watch out for concurrent transactions!



Perfect Numbers

Available

Easy

Determine if a number is perfect, abundant, or deficient based on Nicomachus' (60 - 120 CE) classification scheme for positive...



[Home](#)[Exercises](#)[Tour of concepts](#)[My Journey](#)[Tracks/JavaScript/Debug/Word Count](#)[Instructions](#)

Code Viewer

```
function WordCount(str) {  
  var totalSoFar = 0;  
  for (var i = 1; i <= str.length; i++)  
    if (str.charAt(i) === " ") { // if a space is found in  
str  
      totalSoFar = +1; // add 1 to total so far  
    }  
  totalSoFar += 1; // add 1 to totalsoFar to account  
for extra space since 1 space = 2 words  
  return totalSoFar;  
}  
  
console.log(WordCount("A Random String"));
```

Debug Steps

What will be the output?

☐ 3 ☐ 2 ☐ Exception

What is wrong with for loop usage?

☐ Start index is wrong ☐ Loop condition is wrong☐ Nothing wrong☐ Both start index and loop condition are wrong

Will the program run correctly if we change the loop as follows:

☐ for (var i= str.length - 1; i >= 0; i--)☐ for (var i= 0; i < str.length; i--)☐ for (var i= 0; i < str.length; i++)

Feedback



You are doing great! Please continue....

[Home](#)[Exercises](#)[Tour of concepts](#)[My Journey](#)[Tracks/JavaScript/Debug/Word Count](#)[Instructions](#)

Code Viewer

```
function WordCount(str) {  
  var totalSoFar = 0;  
  for (var i = 1; i <= str.length; i++)  
    if (str.charAt(i) === " ") { // if a space is  
str  
      totalSoFar = +1; // add 1 to total so far  
    }  
    totalSoFar += 1; // add 1 to totalsoFar to a  
for extra space since 1 space = 2 words  
  return totalSoFar;  
}  
  
console.log(WordCount("A Random String"))
```

Debug Steps

Instructions

The current program tries to count words in a given string. Try to read and understand the program and answer the questions in 'Debug Steps'.

1. Each answer carries certain marks.
2. It is necessary to answer all the questions for this exercise to be completed.
3. 'Mark Complete' button will be enabled only when you answer all the questions correctly.

Best of luck! And Happy Learning!

Close

Feedback



You are doing great! Please continue....



Home

Exercices

Tour of concepts

My Journey

[Tracks/JavaScript/Problem Solving](#)

Problem Solving Examples ...

Unlock more exercises as you progress. They're great practice and fun to do!

Search by title

All Exercises 139

Completed 1

In Progress 0

Available 51

Locked 87



Lucian's Luscious Lasagna

Recommended

Learning Exercise

Learn the basics of JavaScript cooking a brilliant lasagna from your favorite cooking book.



Scrabble Score

Available

Medium

Given a word, compute the Scrabble score for that word.



Allergies

Available

Medium

Given a person's allergy score, determine whether or not they're allergic to a given item, and their full list of allergies.



Word Count

Available

Easy

Given a phrase, count the occurrences of each word in that phrase.



Bank Account

Available

Easy

Simulate a bank account supporting opening/closing, withdrawals, and deposits of money. Watch out for concurrent transactions!



Perfect Numbers

Available

Easy

Determine if a number is perfect, abundant, or deficient based on Nicomachus' (60 - 120 CE) classification scheme for positive...



[Home](#)[Exercices](#)[Tour of concepts](#)[My Journey](#)[Tracks/JavaScript/Debug/Word Count](#)[Instructions](#)

Problem statement and code segment

//The following function tries to check whether a given year is a leap year.
// Every fourth year is a leap year. But an year divisible by 100 is a leap year only when it is also divisible by 400
// The function returns number of days for month of February for the year

```
function daysInFebruary(year) {  
  const NUM_DAYS_FEB = 28;  
  if (year % 4 === 0)  
    return NUM_DAYS_FEB;  
  else  
    return NUM_DAYS_FEB + 1;  
}
```

Problem Solving Steps

1. What will be the output when year = 1984?

☐ 28 ☐ 29 ☐ Exception

2. The year 1900 is a not a leap year, but 2000 is.
How will you modify the program to correct it?

3. How will you validate the input to your program?

☐ throw Error if year < 0

☐ throw Error if year > current year

☐ Both of the above

Feedback



You are doing great! Please continue....

[Home](#)[Exercices](#)[Tour of concepts](#)[My Journey](#)[Tracks/JavaScript/Debug/Word Count](#)[Instructions](#)

Code Viewer

```
function WordCount(str) {  
  var totalSoFar = 0;  
  for (var i = 1; i <= str.length; i++)  
    if (str.charAt(i) === " ") { // if a space is  
str  
      totalSoFar = +1; // add 1 to total so far  
    }  
    totalSoFar += 1; // add 1 to totalsoFar to a  
for extra space since 1 space = 2 words  
    return totalSoFar;  
  }  
  
  console.log(WordCount("A Random String"))
```

Debug Steps

Instructions

The current program tries to count words in a given string. Try to read and understand the program and answer the questions in 'Problem Solving Steps'.

1. Each answer carries certain marks.
2. It is necessary to answer all the questions for this exercise to be completed.
3. 'Mark Complete' button will be enabled only when you answer all the questions correctly.

Best of luck! And Happy Learning!

Close

Feedback



You are doing great! Please continue....



Tracks

Exercices

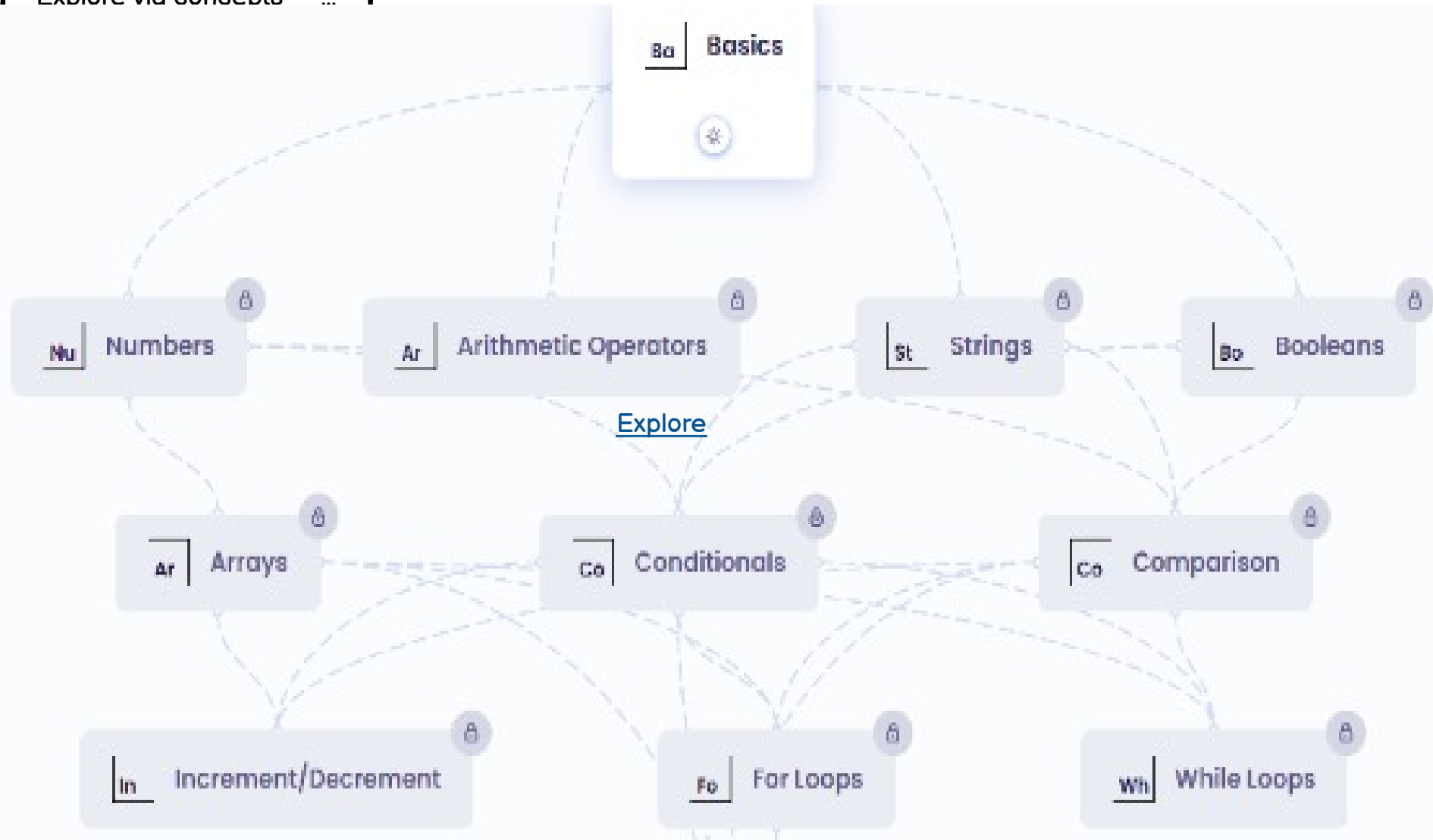
Tour of concepts

My Journey

[Tracks/JavaScript/Cocepts](#)

Unlock more exercises as you progress. They're great practice and fun to do!

Explore via concepts ...





Tracks

Exercices

Tour of concepts

My Journey

[Tracks/JavaScript/Tour of cocepts/Arithmetic Operators](#)

Arithmetic Operators

in



1 exercise

0/1 exercise completed



About Arithmetic Operators

Arithmetic Operators

JavaScript provides 6 different operators to perform basic arithmetic operations on numbers.

- **+** : The addition operator is used to find the sum of numbers.
- **-** : The subtraction operator is used to find the difference between two numbers
- ***** : The multiplication operator is used to find the product of two numbers.
- **/** : The division operator is used to divide two numbers.



Learn Arithmetic Operators



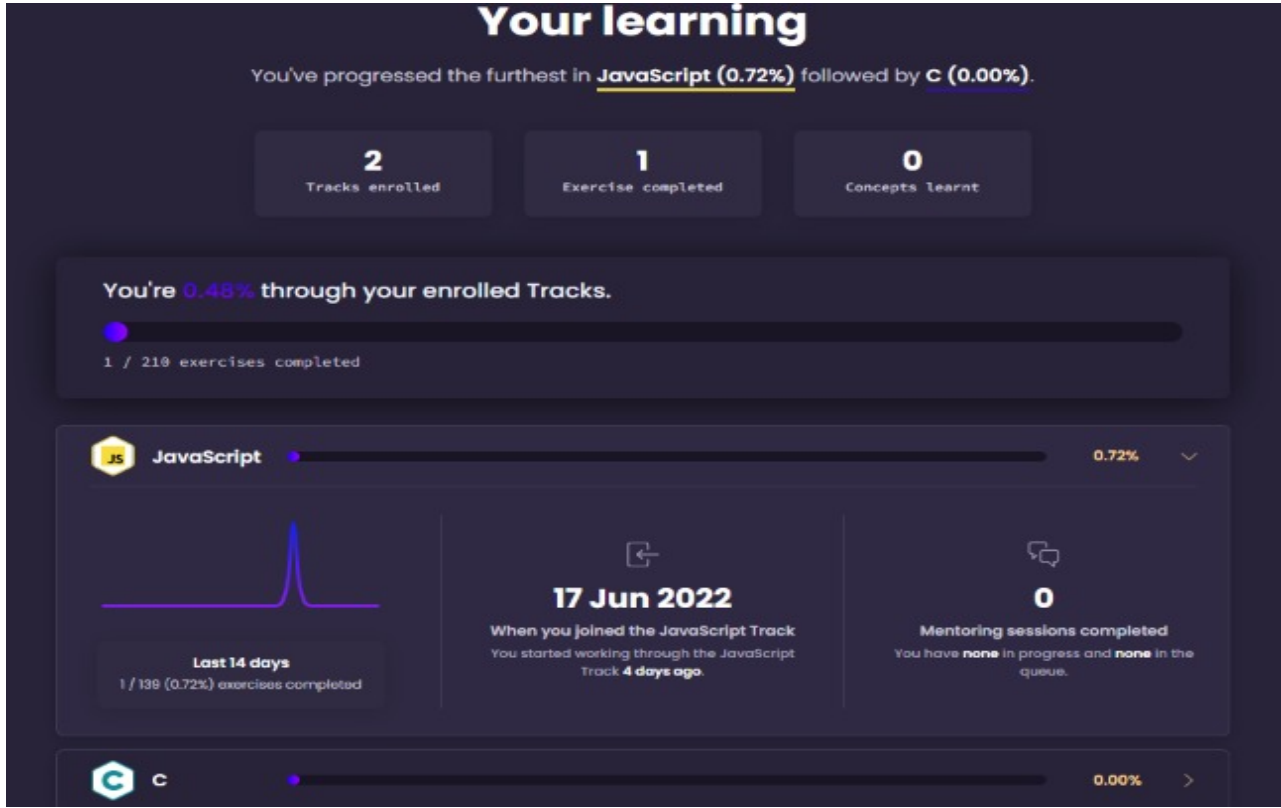
Freelancer Rates

Recommended

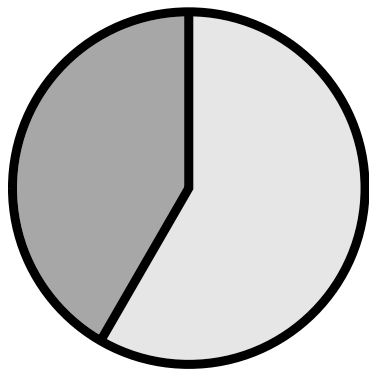
Learning Exercise



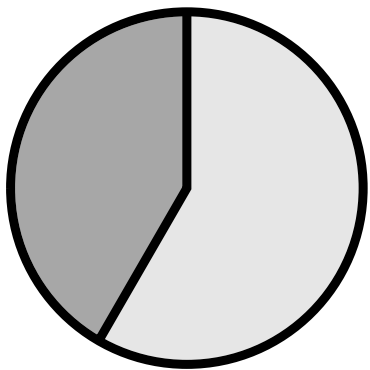
Learn about numbers whilst helping a freelancer communicate with a project...



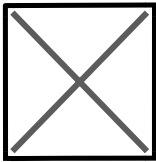
Progress per module:



Code Reading



Debugging skills



Not yet started

Problem Solving