

Try to solve all assignments on a **separate branch**. Keep in mind that you should try to use built-in objects and their methods, solo or combined. You should use loops **only for the 4 and 10** assignment, all others can be solved using built-in object methods.

1. Write a function to convert a number from one base (radix) to another.

Hint: Use one of the built-in functions and toString method of one of the built-in Object Wrappers;

`'ff', 16, 8 -> 377`

2. Write a JavaScript function that reverses a number. `typeof` result of the function should be "number".

`12345 -> 54321`

3. Write a JavaScript function that returns a passed string with letters in alphabetical order. Note: Assume punctuation, numbers and symbols are not included in the passed string.

`"Webmaster" -> "abeemrstw"`

4. Write a function to **alphabetize words** of a given string. Alphabetizing a string means rearranging the letters so they are sorted from A to Z.

`"Republic Of Serbia" -> "Rbceilpu Of Sabeir"`

5. Write a function to split a string and convert it into an array of words.

`"John Snow" -> ['John', 'Snow']`

6. Write a function to convert a string to its abbreviated form.

`"John Snow" -> "John S."`

7. Write a function that can pad (left, right) a string to get to a determined length.

`'0000', 123, 'l' -> 0123`
`'00000000', 123, 'r' -> 12300000`

8. Write a function to capitalize the first letter of a string and returns modified string.

`"js string exercises" -> "Js string exercises"`

9. Write a function to hide email addresses to protect them from unauthorized users.

`"somerandomaddress@example.com" -> "somerand...@example.com"`

10. Write a program that accepts a string as input and swaps the case of each character. For example, if you input 'The Quick Brown Fox', the output should be 'tHE qUICK bROWN fOX'.

```
var UPPER = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ';  
var LOWER = 'abcdefghijklmnopqrstuvwxyz';
```

"The Quick Brown Fox" -> "tHE qUICK bROWN fOX"