

Software training tasks

Hint : please use seven step approach

- 1- Solve ex. by hand. 2- write what you did. 3- Generalize to an algorithm.
 - 4- Check by hand. 4- translate to code. 5- test your code.
 - 6- run test cases. 7- debug failed test cases.
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- 1- Write a function that reverse a number.

Sample Data and output:

Example x = 32243;

Expected Output : 34223

- 2- Write a function that returns a passed string with letters in alphabetical order.

Example string : 'webmaster'

Expected Output : 'abeemrstw'

Note: Assume punctuation and numbers symbols are not included in the passed string.

- 3- Write a function that accepts a string as a parameter and counts the number of vowels within the string.

Note : As the letter 'y' can be regarded as both a vowel and a consonant, we do not count 'y' as vowel here.

Sample Data and output:

Example string : 'The quick brown fox'

Expected Output : 5

- 4- Write a function that accepts a string as a parameter and converts the first letter of each word of the string to upper case.

Sample input: 'the quick brown fox'

Output : 'The Quick Brown Fox '.

- 5- Write a function find the largest of array numbers.

Sample numbers : -5, -2, -6, 0, -1

- 6- Write a function to sort the items of an array (don't use built in function sort or another built in functions).

- 7- Write a function to check if the parameter word is palindrome.

Palindrome : noon, exe, teet.

Not palindrome: exex, test, tete, Emad.

- 8- Write a function that takes a number and return it's recursion

Sample input: 4

Operation: $4*3*2*1$

Output: 24

For all functions that takes only number or array please catch the exception thrown if the user entered another thing and print that you should enter "type function wait" only.

Remember to get the most benefits of the training

Don't cheat, don't hesitate to call any of your trainers

Good luck