L4
Intermediate loops

Practice Question [Recap]

```
Print "FizzBuzz" if i is divisible by 3 and 5.
Print "Fizz" if i is divisible by 3.
Print "Buzz" if I is divisible by 5.
Print i if none of the above conditions are true.
```

Break and continue

Let's say in fizzbuzz, an extra condition is that for multiples of 4, do nothing. What can be done in this scenario ?

Also if there is a danger number also given, how can we stop the loop at that time ?

Loops Continued

Count the number of digits of a positive number.

Loops Continued

A sum of digits of a positive number.

$$4678 \% 10 = 8$$
$$4678 / 10$$

$$467 \% 10 = 7$$
$$467 / 10$$

$$46 \% 10 = 6$$
$$46 / 10$$

$$4 \% 10 = 4$$

Loops Continued

Sum of digits of all numbers from 1 to N.

Loops Continued

For without initialization / condition / updation

Example of printing even numbers from 1 to N using a for loop, but without doing initialization / condition / updation in the loop.

While Loop Question

Get First N numbers that have sum of digits = k

While Loop Question

$\underline{12} \; \cancel{3}$ $12 \; \% \; 10$
$- \; / \; 10$

$\underline{3\,2}$ 1. Check whether a number is palindrome or not

$3 \times 10 + 2$
$32 \times 10 + 1 = 321$

$\boxed{1 \; 2 \; 3}$ *madam*

$\boxed{321}$ *malayalam*

racecar

$\boxed{1 \; 2 \; 21}$

$1 \; 2 \; 3 \; 321$

$1 \; 41$

Practice and Homework Questions

- Check if a given number is a power of 2 or not
    - https://leetcode.com/problems/power-of-two/
- Check if a given number is prime or not?
- Print all prime numbers from 1 to N.
- Calculate product of all digits
- Print all factors of a number
- Print first and last digit of a number

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Thank You!

Please practice more questions and examples as above !!