

Sum of Digits using Recursion











Problems



Given a number, we need to find sum of its digits using recursion. Examples:

Input : 12345
Output : 15

Input : 45632
Output : 20

The step-by-step process for a better understanding of how the algorithm works. Let the number be 12345.

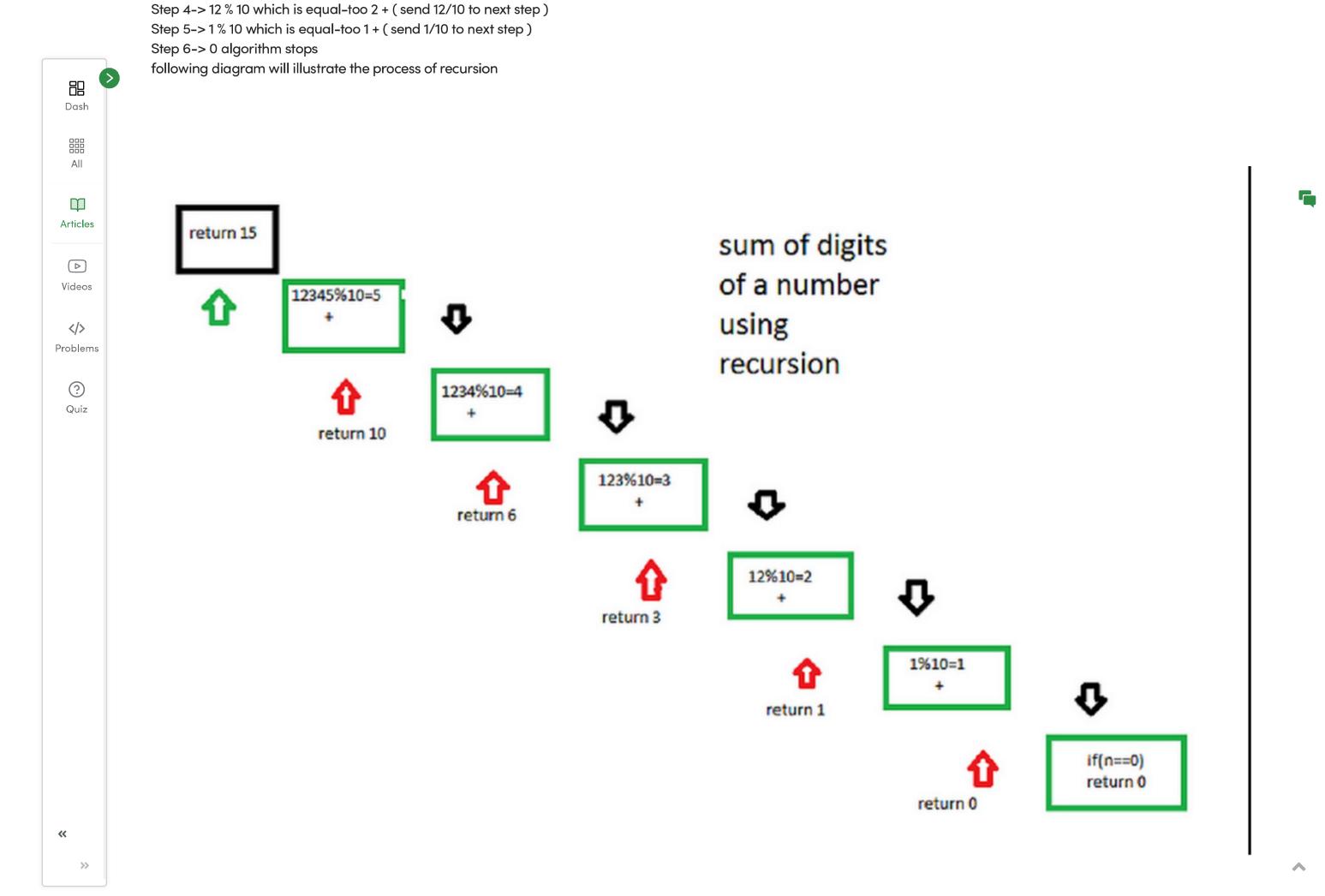
Step 1-> 12345% 10 which is equal-too 5 + (send 12345/10 to next step)

Step 2-> 1234 % 10 which is equal-too 4 + (send 1234/10 to next step)

Step 3-> 123 % 10 which is equal-too 3 + (send 123/10 to next step)

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Quiz

```
# Recursive Python3 program to
# find sum of digits of a number

# Function to check sum of
# digit using recursion

def sum_of_digit(n):
    if n == 0:
        return 0
        return (n % 10 + sum_of_digit(int(n / 10)))

# Driven code to check above
num = 12345
result = sum_of_digit(num)
print("Sum of digits in",num,"is", result)

# This code is contributed by "Sharad_Bhardwaj".
```

Output:

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