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Sum of natural numbers using recursion

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Given a number n, find sum of first n natural numbers. To calculate the sum, we will use a recursive function recur_sum(). **Examples:**

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```
Input : 3
Output : 6
Explanation : 1 + 2 + 3 = 6

Input : 5
Output : 15
Explanation : 1 + 2 + 3 + 4 + 5 = 15
```

Below is code to find the sum of natural numbers up to n using recursion:

Python

```
# Python code to find sum
# of natural numbers upto
# n using recursion

# Returns sum of first
# n natural numbers

def recurSum(n):
    if n <= 1:
        return n
    return n + recurSum(n - 1)

# Driver code
n = 5
print(recurSum(n))</pre>
```

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Output:

15

Time complexity: O(n)

Auxiliary space : O(n)



Dash



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