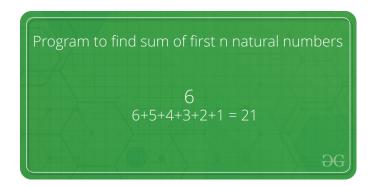
Sum of natural numbers using recursion



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

Examples:

```
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 :

```
// C++ program to find the
// sum of natural numbers up
// to n using recursion
#include <iostream>
using namespace std;

// Returns sum of first
// n natural numbers
int recurSum(int n)
{
```

```
if (n <= 1)
    return n;
return n + recurSum(n - 1);
}

// Driver codeint main()
{
    int n = 5;
    cout << recurSum(n);
    return 0;
}</pre>
```

Output:

15