

```
function sum_to_n_a(n: number): number {  
    let sum = 0;  
    for (let i = 1; i <= n; i++) {  
        sum += i;  
    }  
    return sum;  
}
```

```
function sum_to_n_b(n: number): number {  
    return (n * (n + 1)) / 2;  
}
```

```
function sum_to_n_c(n: number): number {  
    if (n <= 1) {  
        return n;  
    }  
    return n + sum_to_n_c(n - 1);  
}
```