

$$\begin{cases} A_n = A_{(n-1)} + n, & n > 1 \\ A_1 = 1 \end{cases}$$

|   | 1 | 2 | 3 | 4  | 5  |
|---|---|---|---|----|----|
| A | 1 | 3 | 6 | 10 | 15 |

$$A_4 = A_3 + 4$$

$$A_3 = A_2 + 3$$

$$A_2 = A_1 + 2$$

$$A_1 = 1$$

$$\begin{cases} A_n = A_{(n-1)} + n, & n > 1 \\ A_1 = 1 \end{cases}$$

|   | 1 | 2 | 3 | 4  | 5  |
|---|---|---|---|----|----|
| A | 1 | 3 | 6 | 10 | 15 |

$$A_4 = A_3 + 4$$

$$A_3 = A_2 + 3$$

$$A_2 = 1 + 2$$

$$A_1 = 1$$

$$\begin{cases} A_n = A_{(n-1)} + n, & n > 1 \\ A_1 = 1 \end{cases}$$

|   | 1 | 2 | 3 | 4  | 5  |
|---|---|---|---|----|----|
| A | 1 | 3 | 6 | 10 | 15 |

$$A_4 = A_3 + 4$$

$$A_3 = 3 + 3$$

$$A_2 = 1 + 2$$

$$\begin{cases} A_n = A_{(n-1)} + n, & n > 1 \\ A_1 = 1 \end{cases}$$

|   | 1 | 2 | 3 | 4  | 5  |
|---|---|---|---|----|----|
| A | 1 | 3 | 6 | 10 | 15 |

$$A_4 = 6 + 4$$

$$A_3 = 3 + 3$$

Main()

|              |
|--------------|
| lees n       |
| som = A( n ) |
| toon som     |

A( n )

|          |                        |
|----------|------------------------|
| $n > 1$  |                        |
| false    | true                   |
| return 1 | return $A_{(n-1)} + n$ |

```

static void Main(string[] args)
{
    Program myProgram = new Program();
    myProgram.Start();
}

void Start()
{
    Console.Write("Geef een waarde voor n: ");
    int n = int.Parse(Console.ReadLine());

    int resultaat = a(n);
    Console.WriteLine($"a({n}) = {resultaat}");

    Console.ReadKey();
}

int a(int n)
{
    if (n > 1)
        return a(n - 1) + n;
    else
    {
        return 1;
    }
}

```

```

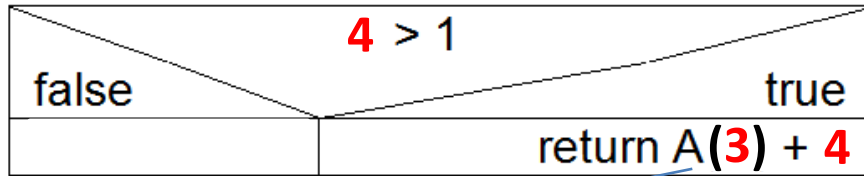
file:///C:/Users/...
Geef een waarde voor n: 4
a(4) = 10
_

```

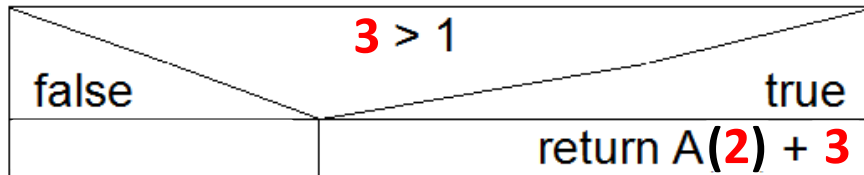
$$\begin{cases} A_n = A_{(n-1)} + n, & n > 1 \\ A_1 = 1 \end{cases}$$

```
int som = A ( 4 ) ;
```

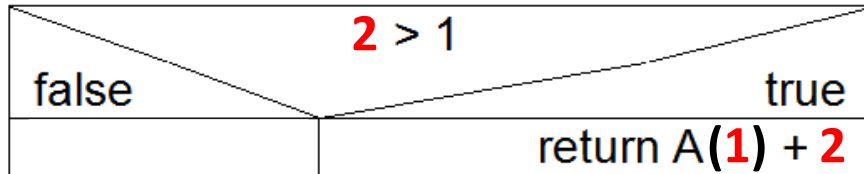
A( 4 )



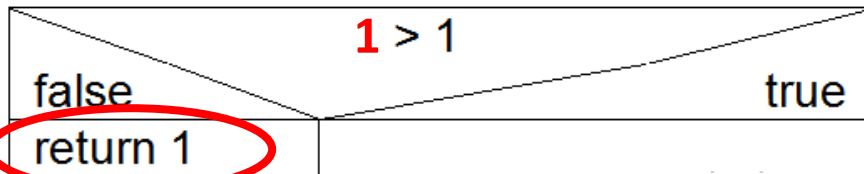
A( 3 )



A( 2 )

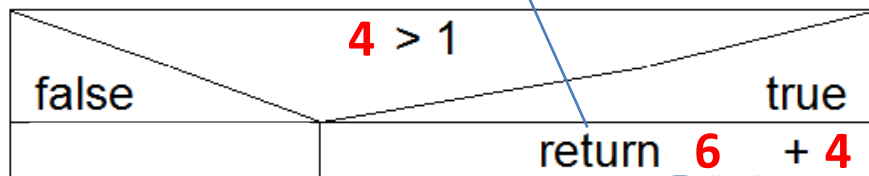


A( 1 )

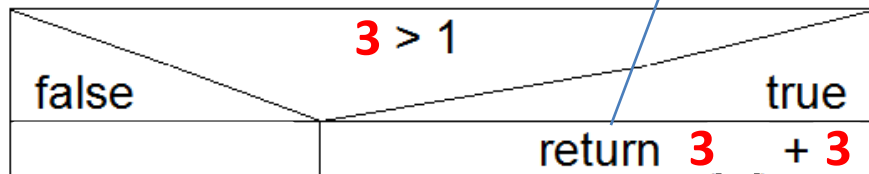


`int som = 10 ;`

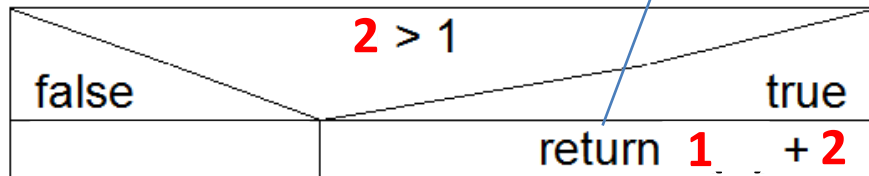
`A(4)`



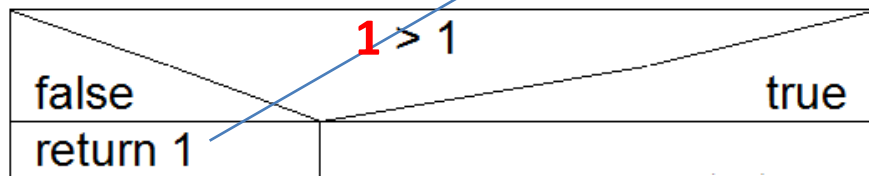
`A(3)`



`A(2)`



`A(1)`





$$\begin{cases} A_n = A_{(n-1)} + n, & n > 1 \\ A_1 = 1 \end{cases}$$

```
int a(int n)
{
    if (n > 1)
        return a(n - 1) + n;
    else
    {
        return 1;
    }
}
```