

What we call functions in Java.

{ C & C++ Functions ≡ Java Methods }

which is executed to perform a specific task.

example:

- I
- u
- m

Add two numbers
Open the browser
Click some button

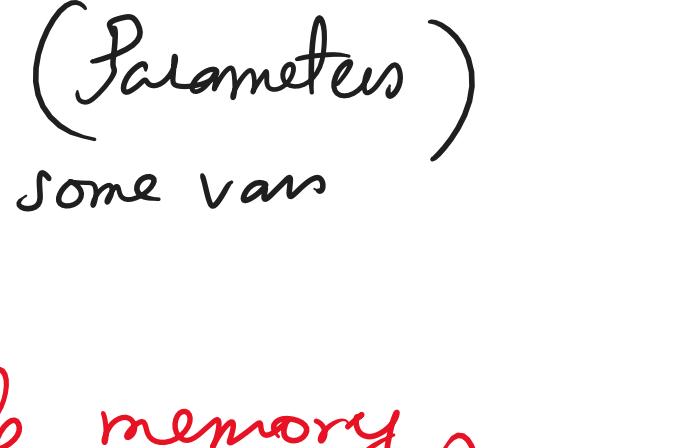
etc

Stack

Heap

~~task~~ void

- dd (a,b) { → (a,b)
print(a+b); } Defi



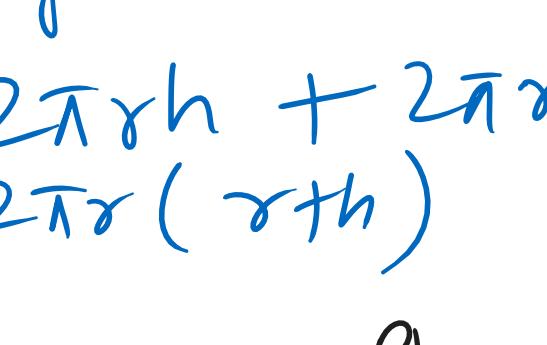
req
main () {
 → add (1,2); actual
 (values) (Arguments)
} not recommended

A diagram of a cube drawn with red lines on a white background. The front face of the cube is labeled "cube side n" in red cursive text. A red curly brace is positioned above the top edge of the cube, indicating its height.

A diagram illustrating a geometric transformation. It consists of two parts. On the left, a rectangular prism is drawn with red lines representing its edges. On the right, the same prism is shown with black lines. A blue arrow points from the left drawing to the right drawing, specifically from the front face of the prism in the first drawing to the front face in the second.



—



$$2D \text{ (Circle)} \\ \left(\frac{n \times (n+1)}{2} + \right)$$

No. of Cuts	Max. Pieces
$\cancel{(n)+1}$	1
1	2
2	4

No of straight lines	Max Regi
+1	1
0	
1	2
2	4

```

int hammingWeight (int n) {
    int sum = 0;
    while (n != 0) {
        if (n & 1 == 1)
            sum++;
        n = n >> 1;
    }
    return sum;
}

```

```

    ↓
    10 >>)
    |
    1 >> 1
    |
    1
    ─────────
    l >> 101 >> 1
    |   ↑
    0   (stop)
    |
    001
    10
    01
    ─────────
    00
    count = 0, 1, 2, 3
    ++
    ++
    ++

```

$s \Rightarrow 1000$

$s >> 1$

$l - 0001$

$l >> 100$

$count = 0 \quad 1 \quad 2 \quad 3$

$\#$

$$\begin{array}{r} \text{DRY} \\ \times 10^{-1} \\ \hline 0000 \\ \hline 000 \\ 100 >> 1 \\ 10 \\ 01 \\ \hline 10 >> 1 \\ 1 \\ 1 >> 1 \end{array}$$

RUN

$\frac{00}{00}$

$\overline{1}$

stop