

Recursion

**A function is recursive if it calls itself
and reaches a stop condition.**

Interview point



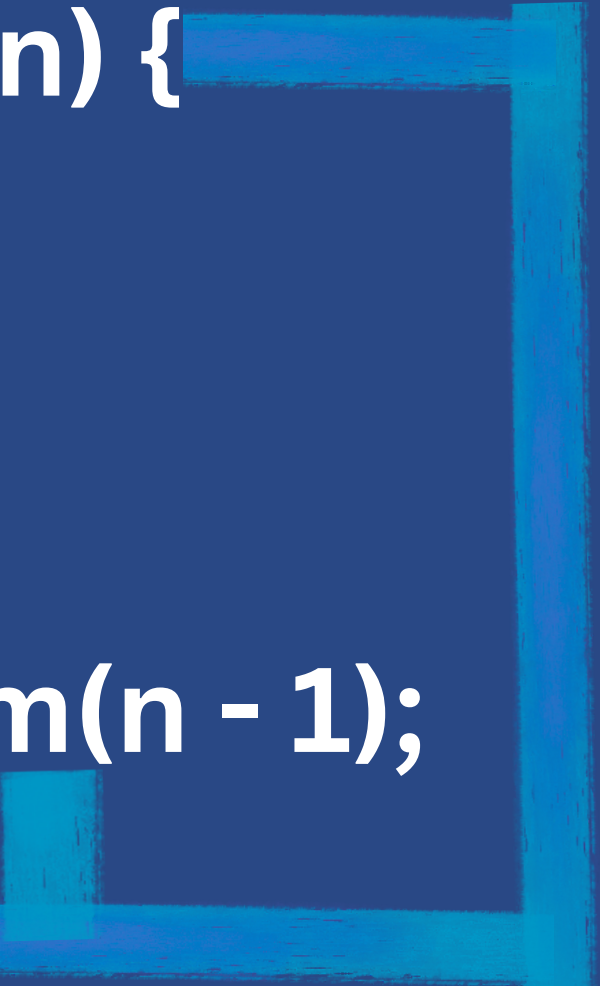
```
function recursion() {  
    if(condition) {  
        recursion();  
    }  
    else {  
        // stop calling recursion()  
    }  
}  
  
recursion();
```

As of definition the recursion function will be called until the condition is satisfied

example 

Example

```
function sum(n) {  
    if (n <= 1) {  
        return n;  
    }  
    return n + sum(n - 1);  
}
```



Here sum function is called recursively
until the condition $n \leq 1$ is true

why we need Recursion?

Recursion is made for solving problems that can be broken down into smaller, repetitive problems

