

Recursive Function

Basic Rules for a recursive function

1) Base Case: must always have a base case in order to make a recursive call 2) Must stop at some point

Examples

Fibonacci

$$fib_n = fib_{n-1} + fib_{n-2}$$

```
int sum(A,n)    // finds the sum of n elements

// Recursive Example
int sum(A,n){
    if(n==0) return 0;
    return sum(A, n-1) + A[n-1];
}
```

#cpp

#code

#recursion

#functions