

Recursion

A function that calls itself is known as recursive function. And, this technique is known as recursion.

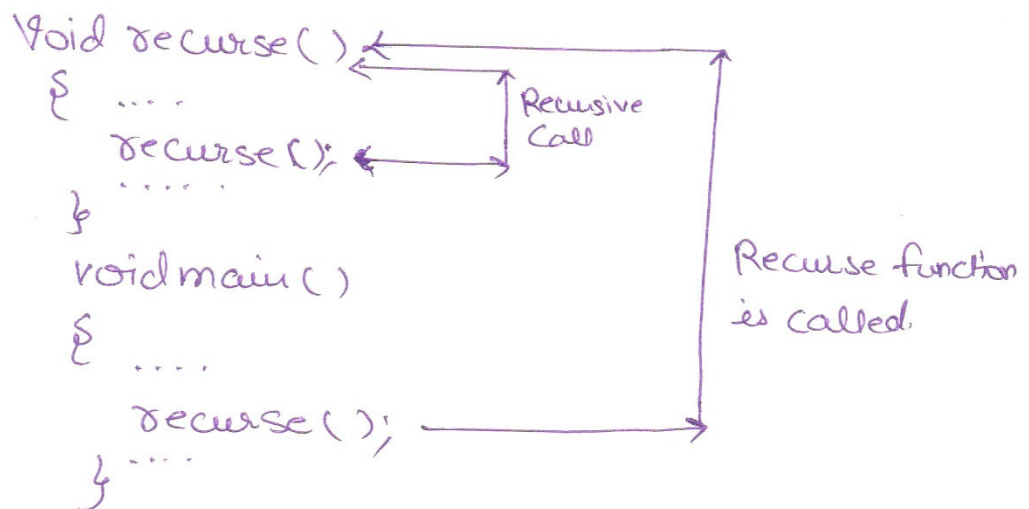
Syntax

```
void recurse ( )  
{  
    ...  
    recurse ( );  
    ...  
}  
void main ( )  
{  
    ...  
    recurse ( );  
    ...  
}
```



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How Recursion work -



In this recursion continues some condition is met to prevent it. To prevent infinite recursion, if-else statement (or similar approach) can be used where one branch makes the recursive call and other does not.

Advantage:- Program becomes more elegant and clear.

Disadvantage:- If the speed of program is vital then we should avoid using it.
→ Recursion use more memory and generally slow.