

# Functions - FAQ

## **Will the functions occupy space in memory?**

Yes, the machine code of a function is kept code section.

## **Will a function occupy space even if it is not called?**

Yes, if a function is defined in a program or included from library, it will occupy space in code section.

## **Where the memory for variable of a function is created?**

Memory for the variables used in a function is created in stack

## **When the memory for variables will be allocated?**

Memory for the variables will be allocated at runtime, when the function is called and deleted when function ends.

## **Is the memory for variables is allocated freshly for each call?**

For for each call of a function memory for the variables is created freshly in the stack.

## **What is return type of a function?**

When a function is called by passing parameters, it will compute and get the results. A function can return the result to a calling function.

Return type is the datatype of a value return by the function.

## **What is void?**

If a function is not returning any value then tis return type is mentioned as void.

## **Difference between int main() and void main()**

**void main()** means main function is not returning any value.

**int main()** means main function will return 0; 0 is a success code. The function have terminated successfully. main() will return the value to operating system, like windows.

In C++ int main() is standard.