

# Assignment 1

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Download all latex-tikz codes from

[https://github.com/neildhami18/IITH\\_Academics/blob/main/EE4013/Assignment1/Assignment1.tex](https://github.com/neildhami18/IITH_Academics/blob/main/EE4013/Assignment1/Assignment1.tex)

## 1 PROBLEM

(Q 26) Consider the following C program.

```
#include <stdio.h>
int jumble(int x, int y){
    x = 2*x + y;
    return x;
}
int main(){
    int x=2, y=5;
    y = jumble(y,x);
    x = jumble(y,x);
    printf("%d \n", x);
    return 0;
}
```

The value printed by the program is?

## 2 SOLUTION

**Answer :** 26

### Explanation

This is a very simple function call problem. The only tricky part involved is that the global variables **x** and **y** are called as parameters **y** and **x** respectively during function call. The function calls in the main loop return the values for **x** and **y** as:

```
y = jumble(y,x) = 2*5 + 2 = 12
x = jumble(y,x) = 2*12 + 2 = 26
```