

C-92 → Solved Problems on Functions

(gate 2019 question)

```
#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);
```

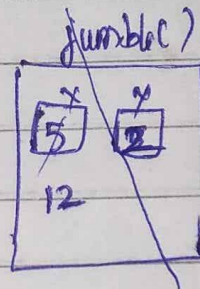
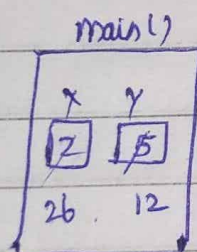
```
    x = jumble (y, x);
```

```
    printf (" %d in ", x);
```

```
    return 0;
```

```
}
```

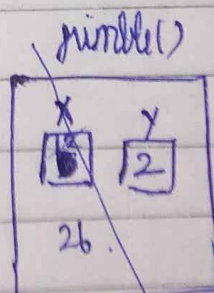
Output ⇒ 26.



$$x = 2 * x + y$$

$$\Rightarrow 2 * 5 + 2$$

$$x \Rightarrow 12$$



$$x = 2 * x + y;$$


$$\Rightarrow 2 * 12 + 2$$

$$\Rightarrow 24 + 2$$

$$\Rightarrow 26$$

PROBLEM 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 1 - FUNCTIONS PROBLEMS **/
4  int jumble(int x,int y)
5  {
6      x=2*x+y;
7      return x;
8  }
9  int main()
10 {
11     int x=2,y=5;
12     y=jumble(y,x);
13     x=jumble(y,x);
14     printf("x=%d y=%d\n",x,y);
15     return 0;
16 }
17
```

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x=26 y=12

Process returned 0 (0x0) execution time : 0.041 s
Press any key to continue.

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