



Functions in C ★

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Objective

In this challenge, you will learn simple usage of functions in C. Functions are a bunch of statements grouped together. A function is provided with zero or more arguments, and it executes the statements on it. Based on the return type, it either returns nothing (void) or something.

A sample syntax for a function is

```
return_type function_name(arg_type_1 arg_1, arg_type_2 arg_2, ...) {  
    ...  
    ...  
    ...  
    [if return_type is non void]  
        return something of type `return_type`;  
}
```

For example, a function to read four variables and return the sum of them can be written as

```
int sum_of_four(int a, int b, int c, int d) {  
    int sum = 0;  
    sum += a;  
    sum += b;  
    sum += c;  
    sum += d;  
    return sum;  
}
```

+= : Add and assignment operator. It adds the right operand to the left operand and assigns the result to the left operand.

`a += b` is equivalent to `a = a + b`;

Task

Write a function `int max_of_four(int a, int b, int c, int d)` which reads four arguments and returns the greatest of them.

Note

There is not built in max function in C. Code that will be reused is often put in a separate function, e.g. `int max(x, y)` that returns the greater of the two values.

Input Format

Input will contain four integers - ***a, b, c, d*** , one on each line.

Output Format

Print the greatest of the four integers.

Note: I/O will be automatically handled.

Sample Input

```
3  
4  
6  
5
```

Sample Output

```
6
```

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Language

C



```
1  #include <stdio.h>
2
3  void max(int a, int b,int c, int d);
4
5  int main() {
6      int a, b, c, d;
7      scanf("%d %d %d %d", &a, &b, &c, &d);
8      max(a, b, c, d);
9
10
11     return 0;
12 }
13
14 void max(int a, int b,int c, int d){
15     int max=0;
16     {if(a>max)
17         max=a;
18     }
19     {if(b>max)
20         max=b;}
21
22     {if(c>max)
23         max=c;}
24
25     {if(d>max)
26         max=d;}
27     printf("%d",max);
```

Line: 31 Col: 1

Upload Code as File



Test against custom input

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✔ Sample Test case 0

Input (stdin)

[Download](#)

1	3
2	4
3	6
4	5

Your Output (stdout)

1	6
---	---

Expected Output

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1	6
---	---