



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.

$a += b$ 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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```
1  #include <stdio.h>
2  /*
3   Add `int max_of_four(int a, int b, int c, int d)` here.
4   */
5
6  int max_of_four(int a,int b,int c,int d)
7  {
8      if((a>b)&&(a>c)&&(a>d))
9          return a;
10     else if((b>a)&&(b>c)&&(b>d))
11         return b;
12     else if((c>a)&&(c>b)&&(c>d))
13         return c;
14     else {
15         return d;
16     }
17 }
18 int main() {
19     int a, b, c, d;
20     scanf("%d %d %d %d", &a, &b, &c, &d);
21     int ans = max_of_four(a, b, c, d);
22     printf("%d", ans);
23 }
```

Line: 17 Col: 2

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Compiler Message

Success

Input (stdin)

1	3
---	---

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Test case 4

2	4
3	6
4	5

Expected Output

1	6
---	---

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