

**Objective**

In this challenge, you will learn simple usage of functions in C.

Problem

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.

Submissions

A sample syntax for a function is

```
return_type function_name(arg_type_1 arg_
...
...
...
[if return_type is non void]
    return something of type `return_
}
```

Leaderboard

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
int sum = 0;
sum += a;
sum += b;
sum += c;
sum += d;
return sum;
}
```

Discussions

+= : Add and assignment operator. It adds the rig

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

Editorial**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

[Change Theme](#) Language

C



```
1  #include <stdio.h>
2  /*
3  Add `int max_of_four(int a, int b,
   int c, int d)` here.
4  */
5  int max_of_four(int a, int b, int c,
   int d)
6  {
7      int max1, max2;
8
9      if ( a > b )
10         max1 = a;
11     else
12         max1 = b;
13     if ( c > d)
14         max2 = c;
15     else
16         max2 = d;
17
18     if ( max1 > max2)
19         return max1;
20     else
21         return max2;
22 }
23
24 int main() {
25     int a, b, c, d;
26     scanf("%d %d %d %d", &a, &b, &c, &
   d);
27     int ans = max_of_four(a, b, c, d);
28     printf("%d", ans);
29
30     return 0;
31 }
32
33
```

-- INSERT --

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