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// CS264_Study_Material
// Created by Stephen O Brien on 27/11/2017.
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//

//Templates\\

#include <iostream>
#include <vector>
using namespace std;

template <typename T>
/*this is the syntax to declare a template, it uses the T as
an object."typename" is the keyword to initiate the template and it is of type T
which
is versatile. */
const T& my_max (const T &a, const T &b) {

    /* all elements of the function are 'const' which means that they can not be
    changed or edited. they are
    simply used to compare.
    this function uses a ternary operator to return the element which is
    biggest. Line 37 can be edited to compare multiple data types.
    */

    return (a<b) ? a:b;
}

int main() {

    int a = 300;
    int b = 500;

    /* the function is called here, it can be called to another data type but for
    argument sake, it is being returned to the output stream. */

    cout<<my_max(a,b)<<endl;

    return 0;
}

```