

Homework 5

Computer Programming (I) Fall Semester, 2023

We hope that in the following program, the line commented with “yes” outputs “yes”.
Please achieve this by

- providing a function named `foo`,
- replacing every occurrence of “`/* REPLACE */`” by code, and
- changing nothing else.

```
#include <iostream>
#include <cassert>
using namespace std;

int main()
{
    int x;
    int y;
    int z;

    for ( int i = 0; i < 8; ++i )
    {
        foo( /* REPLACE */, /* REPLACE */, /* REPLACE */, i );
        assert( x >= 0 && x <= 1 && y >= 0 && y <= 1 && z >= 0 && z <= 1 );
        assert( z + y * 2 + x * 4 == i );
    }

    cout << "yes" << endl; // yes
}
```

Please do not use references in the `foo` function.