

In the following C++ function, let $n \geq m$.

```
int gcd(int n, int m) {  
    if (n%m == 0) return m;  
    if (n < m) swap(n, m);  
    while (m > 0) {  
        n = n%m;  
        swap(n, m);  
    }  
    return n;  
}
```