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// Data Structures Lab 8
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#include <stdio.h>
/////////////////////////////////

int euclid(int m, int n){
    int r;
    while(n!=0){
        r = m%n;
        m = n;
        n = r;
    }
    return m;
}

/////////////////////////////////

int euclid_count(int m, int n) {
    int r;
    int count = 0;
    do{
        r = m % n;
        m = n;
        n = r;
        count++;
    }while(n!=0);
    return count;
}

/////////////////////////////////
/////////////////////////////////

int main(){
    int a=12345, b=123;
    printf(_Format: "gcd of %d and %d  = %d\n", a, b, euclid(a, b));
    printf(_Format: "count of basic ops = %d\n", euclid_count(a, b));
}

```

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gcd of 12345 and 123  = 3
count of basic ops = 6

Process finished with exit code 0

```



