Problem statement Send feedback

You are given two integers ***'n'***, and ***'m'***.

Calculate ***'gcd(n,m)'***, without using library functions.

Note:

The greatest common divisor (gcd) of two numbers 'n' and 'm' is the largest positive number that divides both 'n' and 'm' without leaving a remainder.

Example:

```
Input: 'n' = 6, 'm' = 4

Output: 2

Explanation:
Here, gcd(4,6) = 2, because 2 is the largest positive integer that divides both 4 and 6.
```

Detailed explanation (Input/output format, Notes, Images)

Sample Input 1:

```
9 6
```

Sample Output 1:

```
3
```

Explanation of sample output 1:

```
gcd(6,9) is 3, as 3 is the largest positive integer that divides both 6 and 9.
```

Sample Input 2:

```
2 5
```

Sample Output 2:

```
1
```

Expected Time Complexity:

Try to solve this in O(log(n))

Constraints:

```
0 <= ‘n’ <= 10^5
```

```
Time Limit: 1 sec
```