

# 952. Largest Component Size by Common Factor

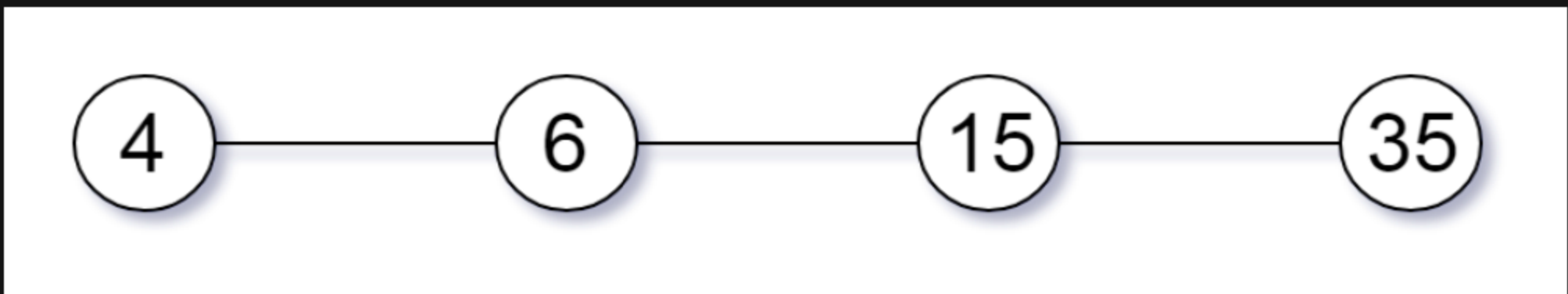
## Description

You are given an integer array of unique positive integers `nums` . Consider the following graph:

- There are `nums.length` nodes, labeled `nums[0]` to `nums[nums.length - 1]` ,
- There is an undirected edge between `nums[i]` and `nums[j]` if `nums[i]` and `nums[j]` share a common factor greater than `1` .

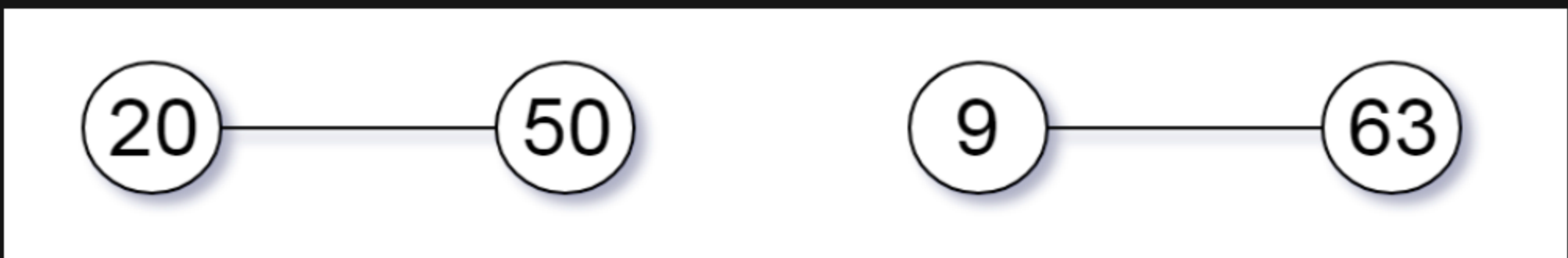
Return *the size of the largest connected component in the graph* .

### Example 1:



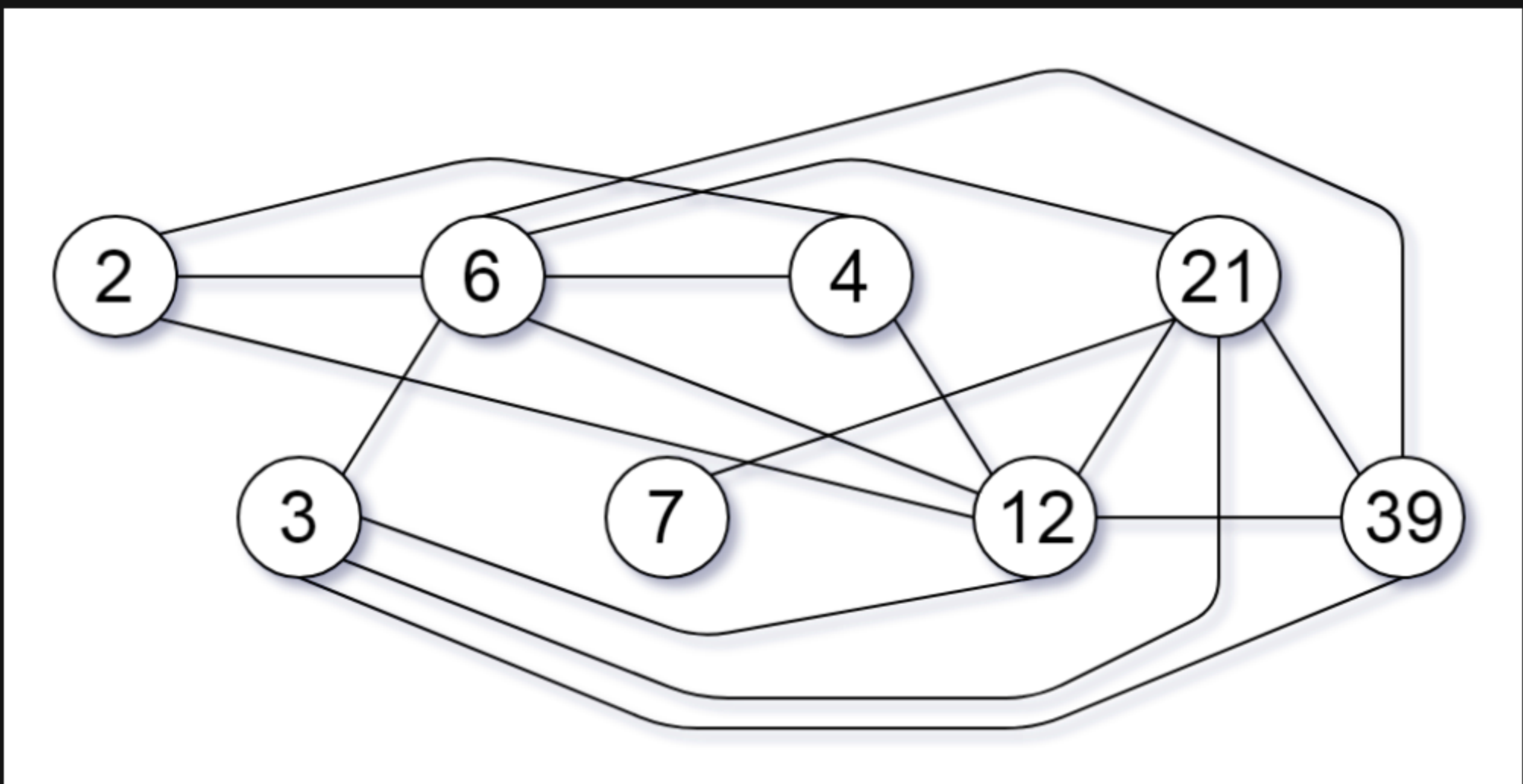
Input: `nums = [4,6,15,35]`  
Output: `4`

### Example 2:



Input: `nums = [20,50,9,63]`  
Output: `2`

### Example 3:



Input: `nums = [2,3,6,7,4,12,21,39]`  
Output: `8`

### Constraints:

- `1 <= nums.length <= 2 * 104`
- `1 <= nums[i] <= 105`
- All the values of `nums` are unique .

