

# Divisibility Relation

[English](#)

[Vietnamese](#)

Given  $n$  positive integers. Your task is to select a maximum number of integers so that there are no two numbers  $a, b$  in which  $a$  is divisible by  $b$ .

## Input

- Line 1:  $n$  ( $1 \leq n \leq 200$ ).
- Line 2:  $n$  positive integers  $a_1, a_2, \dots, a_n$  ( $1 \leq a_i \leq 10^9$ ).

## Output

- Line 1:  $k$ , the maximum number of integers that can be selected.
- Line 2:  $k$  selected integers.

## Example

### Input

```
8  
1 2 3 5 6 8 7 9
```

### Output

```
5  
5 6 8 7 9
```

### Input

```
4  
2 3 2 3
```

### Output

```
2  
2 3
```