

Primality test

From a given list of non-zero positive integer constants, find out prime numbers.

Input Format

First line contains value n , which represents count of numbers in the list to check.

second line contains list of n non-zero positive integer constants separated by space.

Constraints

$1 < n < 1000000$

$1 < \text{each number in the list} < 1000000$

Output Format

One line - list of prime numbers from input separated by space. It may be empty if there is no prime number in the input list.

Sample Input 0

```
1
1
```

Explanation 0

No prime number in the input list and hence output is empty.

Sample Input 1

```
1
2
```

Sample Output 1

```
2
```

Sample Input 2

```
1
3
```

Sample Output 2

```
3
```

Sample Input 3

1
4

Sample Input 4

3
1 2 3

Sample Output 4

2 3

Sample Input 5

10
1 2 3 4 5 7 11 13 15 16

Sample Output 5

2 3 5 7 11 13

Sample Input 6

4239
888898 888922 888926 888938 888946 888974 889034 889046 889054 889058 889078 889094 889106 889114 889138
889178 889214 889246 889274 889282 889298 889342 889354 889402 889426 889478 889534 889582 889586 889606
889622 889634 889666 889682 889718 889726 889738 889754 889766 889774 889786 889802 889858 889874 889906
889934 889942 889958 890002 890038 890042 890062 890066 890138 890174 890182 890194 890206 890282 890314
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901634 901658 901678 901682 901694 901718 901762 901766 901774 901786 901798 901826 901834 901858 901886

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931286	931298	931318	931358	931402	931442	931478	931486	931522	931562	931594	931598	931618	931642	931666
931682	931774	931786	931802	931834	931858	931862	931894	931954	931978	932018	932038	932054	932066	932086
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