

Array_Level2_002

Given an array A[], write a program to segregates even and odd numbers. The ouput should have all even numbers first, and then odd numbers.

Input Format

Input contains the array values

Constraints

$1 \leq \text{array_size} \leq 10000$

Output Format

print the altered array

Sample Input 0

```
7
12 34 45 9 8 90 3
```

Sample Output 0

```
12 34 8 90 45 9 3
```