

## Problem A. 76433. ASC sort

Input file:            standard input  
Output file:           standard output  
Time limit:           1 second  
Memory limit:         256 megabytes

You are given  $N$  integers. Sort the  $N$  integers by ascending order. Store  $N$  integers in a vector.

### Input

The first line of input contains the number  $N$  - number of integers.  
The second line contains a sequence of integers.

### Output

Print out sorted integers

### Example

standard input	standard output
4 20 3 7 9	3 7 9 20

## Problem B. 76435. Reverse array

Input file:            standard input  
Output file:           standard output  
Time limit:           1 second  
Memory limit:         256 megabytes

You are given  $N$  integers. Your task is to reverse sequence of integers. Store  $N$  integers in a vector.

### Input

The first line of input contains the number  $N$  - number of integers.

The second line contains a sequence of integers.

### Output

Print out reversed integers

### Example

standard input	standard output
5 3 4 1 8 6	6 8 1 4 3

## Problem C. 76440. Reverse in range

Input file:            standard input  
Output file:           standard output  
Time limit:           1 second  
Memory limit:         256 megabytes

You are given  $n$  integers. Then index ranges  $a$  and  $b$ , ( $0 \leq a < b \leq n - 1$ ). Your task is to reverse array elements in a given range ( $[a...b]$  — index range bounds inclusively). Store  $n$  integers in a vector.

### Input

The first line of input contains the number  $n$  - the number of integers.

The second line contains a sequence of integers. The third line contains integers  $a$  and  $b$

### Output

Print out result sequence

### Example

standard input	standard output
5 9 -1 2 8 6 1 3	9 8 2 -1 6

## Problem D. 76470. Vector erase

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         256 megabytes

You are given  $n$  integers. Then you are given an integer  $k$  — index in the vector. Your task is to erase value at given index  $k$ .

### Input

The first line of input contains the number  $n$ , ( $1 \leq n \leq 100$ ) — the number of integers.

The second line contains a sequence of integers.

The third line contains an integer  $k$ , ( $0 \leq k \leq n - 1$ ) — index in the vector.

### Output

Print out elements of the vector separated by space after erase operation

### Example

standard input	standard output
5 3 1 2 9 6 3	3 1 2 6

## Problem E. 76471. Erase range

Input file:            standard input  
Output file:           standard output  
Time limit:            1 second  
Memory limit:         256 megabytes

You are given  $n$  integers. Then index ranges  $a$  and  $b$ , ( $0 \leq a < b \leq n - 1$ ). Your task is to erase sequence elements in a given range ( $[a...b]$  — index range bounds inclusively). Store  $n$  integers in a vector.

### Input

The first line of input contains the number  $n$  - the number of integers.

The second line contains a sequence of integers. The third line contains integers  $a$  and  $b$

### Output

Print out result sequence after erase operation

### Example

standard input	standard output
5 2 3 9 -1 8 2 3	2 3 8

## Problem F. 76472. Add element

Input file:            standard input  
Output file:          standard output  
Time limit:           1 second  
Memory limit:        256 megabytes

You are given  $n$  integers. Then two integers  $k$ , ( $0 \leq k \leq n - 1$ ) — index in the sequence and  $a$  — given value. Your task is to insert number  $a$  at index  $k$ . Store  $n$  integers in a vector.

### Input

The first line of input contains the number  $n$  - the number of integers. The second line contains a sequence of integers. The third line contains integers  $k$  and  $a$ .

### Output

Print out newly created sequence

### Example

standard input	standard output
5 2 3 8 -3 4 1 10	2 10 3 8 -3 4

## Problem G. 76473. Number of primes

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         256 megabytes

You are given  $n$ , ( $1 \leq n \leq 100$ ) positive integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ). Then one integer number  $k$ , ( $1 \leq k \leq 200$ ). Your task is to show a count of prime numbers in a sequence that are greater than  $k$ . Store  $n$  integers in a vector. You should create function *isPrime* to check for the prime.

### Input

The first line of input contains the number  $n$  - the number of integers. The second line contains a sequence of integers. The third line contains integers  $k$ .

### Output

Output single number — count result

### Example

standard input	standard output
5 3 4 59 13 7 8	2

## Problem H. 76503. K smallest numbers

Input file:            standard input  
Output file:           standard output  
Time limit:            1 second  
Memory limit:         256 megabytes

You are given  $n$ , ( $1 \leq n \leq 100$ ) positive integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ). Then one integer number  $k$ , ( $1 \leq k \leq n - 1$ ). Find  $k$  smallest numbers from given sequence.

### Input

The first line of input contains the number  $n$  - the number of integers. The second line contains a sequence of integers. The third line contains integers  $k$ .

### Output

Print out  $k$  smallest numbers

### Example

standard input	standard output
5 100 3 40 143 20 2	3 20



## Problem I. 76504. Find K

Input file:            standard input  
Output file:           standard output  
Time limit:            1 second  
Memory limit:         256 megabytes

### Input

You are given  $n$ , ( $1 \leq n \leq 100$ ) positive integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ). Then one integer number  $k$ , ( $1 \leq k \leq 1000$ ).

### Output

Output *Yes* if  $k$  found at least ones in the sequence, *No* otherwise.

### Examples

standard input	standard output
4 9 30 4 -3 4	Yes
4 2 3 0 1 10	No

## Problem J. 76509. Big difference

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

### Input

You are given  $n$ , ( $1 \leq n \leq 100$ ) integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ).

### Output

Output difference between the largest and smallest values in the sequence

### Example

standard input	standard output
4 10 2 3 14	12

## Problem K. 76512. Sum of K largest

Input file:            standard input  
Output file:           standard output  
Time limit:            1 second  
Memory limit:         256 megabytes

You are given  $n$ , ( $1 \leq n \leq 100$ ) positive integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ). Then one integer number  $k$ , ( $1 \leq k \leq n - 1$ ). Find the sum of  $k$  largest numbers from given sequence.

### Input

The first line of input contains the number  $n$  - the number of integers. The second line contains a sequence of integers. The third line contains integers  $k$ .

### Output

Print out single number — sum of  $k$  largest numbers

### Example

standard input	standard output
4 2 12 4 10 2	22

## Problem L. 76513. Unique elements

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

### Input

You are given  $n$ , ( $1 \leq n \leq 100$ ) integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ).

### Output

Print out single number — the number of unique elements

### Example

standard input	standard output
5 1 2 1 3 3	3

## Problem M. 76515. Sum of uniques

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

### Input

You are given  $n$ , ( $1 \leq n \leq 100$ ) integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ).

### Output

Print out single number — the sum of unique elements.

### Example

standard input	standard output
5 1 1 2 3 3	6

## Problem N. 76520. Remove evens

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

### Input

You are given  $n$ , ( $1 \leq n \leq 100$ ) integers, each integer  $v[i]$ , ( $1 \leq v[i] \leq 1000$ ).  
Create new sequence with unique elements. Then remove even numbers from new sequence.

### Output

Print out sequence after removing operation

### Example

standard input	standard output
5 1 1 2 3 3	1 3

## Problem O. 76521. Sort letters

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

### Input

Single line of input contains one string —  $s$  which consists of upper and lower case letter.

### Output

In first line output single integer — the number of unique letters from given string

Second line contains lower case each letter in the alphabet separated by space

### Examples

standard input	standard output
testsample	7 a e l m p s t
SecondTEST	7 c d e n o s t