

Problem F

Bus Numbers Shortening

Time limit: 1 second

The city of Hanoi currently has many bus routes serving both urban and suburban areas. With the increasing number of bus routes and the involvement of various transportation companies, selling tickets specifically for each bus has become inconvenient and limited. This is due to the need to produce a large number of tickets, each with a unique code assigned to a specific bus route.

The Ministry of Transport has decided to research a solution similar to train tickets, where tickets can be reused as long as the bus route is printed on the ticket. However, once again, a problem arose. Printing all the bus routes that the ticket can be used for was not suitable due to the ticket's limited size and the large number of bus routes. Therefore, they came up with a different approach.



Bus route 103 in Hanoi

The solution is to shorten the list of bus routes by only listing the first and last route, separated by a hyphen. For example, instead of listing routes 141, 142 and 143, they would be condensed into "141-143".

You are given a list of buses number. What is the shortest representation of this list?

Input

The first line of the input contains one integer N , the number of buses that stop at a bus stop.

The next line contains a list of N space separated integers B_i , which denote the bus numbers. **All numbers are distinct.**

Output

Print the shortest representation of the list of bus numbers. Use the format as in the example, separate numbers with single spaces and output them in sorted order.

Constraints

$$1 \leq N \leq 1000.$$

$$1 \leq B_i \leq 1000.$$

Sample Input 1

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6
180 141 174 143 142 175
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Sample Output 1

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141-143 174 175 180
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