Zero to One

Challenge:

Problem Description:

You are given an array of n real numbers. Your task is to normalize the array so that it is in the range 0 - 1. The normalized value of each element is calculated as follows:

$$x' = \frac{x - \min(x)}{\max(x) - \min(x)}$$

Input:

- The first line contains an integer n, representing the number of elements in the array.
- The second line contains n space-separated real numbers.

Output:

- Output n space-separated real numbers representing the normalized values, rounded to 6 decimal places.

Example:

Input:

```
3
1 2 3
```

Output:

```
0.000000 0.500000 1.000000
```