Merging two sorted arrays

ZPRAC-16-17-Lab7

[40 Points]
Merging two sorted arrays

ANNOUNCEMENT: Up to 20% marks will be allotted for good programming practice. These include
- Comments for non trivial code
- Indentation: align your code properly
- Use of functions

Given two arrays containing values in non descending order, merge them in a single non descending array.

Input Specification:
First line contains size N1 of first array.
Next line contains N1 space separated integers giving the contents of first array.
Next line contains size N2 of second array.
Next line contains N2 space separated integers giving the contents of second array.

Output Format:
Output the elements of merged array (each followed by a newline).

Variable Constraints:
The array size is smaller than 10000.
Each array entry is an integer which fits an int data type.

Example:
Input:
5
1 2 5 9 16
3
3 5 21

Output:
1
2

3
5
5
9
16
21

Input
2
1 2
3
12 31 45

Output:
1
2
12
31
45