

14/03/2016

BLM1552
Assignment – 1
(Due 22/03/2016 – 23:59h)

Q1

Design an **efficient** algorithm, which adds new given numbers into an sorted array without changing the sort order. Afterwards, write the necessary program in C.

Inputs: Number of elements of the sorted array
 Number of elements which are to be added
 Elements of the sorted array
 Elements which are to be added

Output: An expanded sorted array (Use the same sorted array. Do not use a new array)

Examples

Input: 5
 2
 1 3 5 7 9
 2 8

Output: 1 2 3 5 7 8 9

Input: 4
 3
 -1 0 5 8
 -5 9

Output: -5 -1 0 5 8 9

ATTENTION

Do not forget to read the document “ASSIGNMENT RULES”, located in our website.