4). Write a program to find out a set of valid sub arrays from a given array. The window size of the sub array should be configurable. The output of each sub array should be formed by finding the maximum value in each position (i.e units, tens, hundreds, thousands position etc...).

Example : If the sub array is {36,145,67,1004} then the biggest units place among these is 7, the biggest digit in tens place is 6 etc.... So the derived number from this array would be 1167.

A sub array is considered valid only if it has a favorite number in it. (the number can be in any position). The list of valid and invalid sub arrays should be printed at the end.

Example Input

Input Array : {35,145,67,1004,88,456,2034}

Window size : 3

Favorite number : 8

Output :

{35,145,67} : 167

{145,67,1004} : 1167

{67,1004,88} : 1088

{1004,88,456} : 1488

{88,456,2034} : 2488

Arrays {67,1004,88}, {1004,88,456}, {88,456,2034} are valid arrays

Arrays {35,145,67}, {145,67,1004} are invalid arrays