

ASSIGNMENT QUESTION-3

Form two numbers having min and max possible value with any given set of digits without repeating any digit.

E.g : given set of digits : 1, 3, 2, 7, 9, 4

Solution :

min possible value : 123479

max possible value : 974321

Answer:-

Algorithm:

- Sort the digits in ascending order to get the minimum value:
Arrange the digits in ascending order.
Form the minimum number using these digits.
- Sort the digits in descending order to get the maximum value:
Arrange the digits in descending order.
Form the maximum number using these digits.

Example:

Let's take the set of digits: 5, 8, 2, 3, 7, 1

- Sort in ascending order for the minimum value:
Arrange in ascending order: 1, 2, 3, 5, 7, 8
Form the minimum number: 123578
- Sort in descending order for the maximum value:
Arrange in descending order: 8, 7, 5, 3, 2, 1
Form the maximum number: 875321

So, for the given set of digits (5, 8, 2, 3, 7, 1):

Minimum possible value: 123578

Maximum possible value: 875321