PRACTICAL ONE

Name

Batch

Roll nO

Q1. Write a program to find Minimum and Maximum element in the given array using Min-Max Algorithm based on Divide and Conquer Strategy.

About min-max

Some theory about min-max

Output

Include the following points in your submission

1. **Input:**
2. **Output:**
3. **Table**

No of input	Min-max Linear (Time)	Min-max (DAC) Time
100	35sec	30sec
150		
200		
250		
1000		

4. **Graph**
5. **Analysis for your result (One paragraph)**

Sample result

OUTPUT:

Enter number of test cases

5

Enter size of array

10000

Generating array of 10000 random numbers

Linear Approach: Min=193686 Max=2147482951, Time required:

DAC Approach: Min=193686 Max=2147482951, Time required:

Enter size of array

20000

Generating array of 20000 random numbers

Linear Approach: Min=35442 Max=2147350758

DAC Approach: Min=35442 Max=2147350758

Enter size of array

30000

Generating array of 30000 random numbers

Linear Approach: Min=6379 Max=2147439130

DAC Approach: Min=6379 Max=2147439130

Enter size of array

40000

Generating array of 40000 random numbers

Linear Approach: Min=60275 Max=2147474125

DAC Approach: Min=60275 Max=2147474125

Enter size of array

50000

Generating array of 50000 random numbers

Linear Approach: Min=31186 Max=2147480311

DAC Approach: Min=31186 Max=2147480311