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Java Quick Sort implem

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ky aap Quick sort bhi samjh sakte hai java main

Haan, main Quick Sort ko Java mein samajh sakta hoon. Quick Sort ek efficient sorting algorithm hai, jisse hum array ko sort kar sakte hain.

Yahan ek example hai Quick Sort implementation ka Java mein:

```
public class QuickSort {
    public static void sort(int[] arr, int low, int high) {
        if (low < high) {
            int pivot = partition(arr, low, high);

            sort(arr, low, pivot - 1);
            sort(arr, pivot + 1, high);
        }
    }

    public static int partition(int[] arr, int low, int high) {
        int pivot = arr[high];
        int i = (low - 1);

        for (int j = low; j < high; j++) {
            if (arr[j] <= pivot) {
                i++;

                int temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
            }
        }

        int temp = arr[i + 1];
        arr[i + 1] = arr[high];
        arr[high] = temp;

        return i + 1;
    }

    public static void main(String[] args) {
        int[] arr = { 5, 2, 9, 1, 5, 6 };
        int n = arr.length;

        sort(arr, 0, n - 1);

        for (int i = 0; i < n; i++) {
            System.out.print(arr[i] + " ");
        }
    }
}
```

Is implementation mein, `sort()` function ko diya gaya array, `low` aur `high` index, jiske bich array ko sort karna hai, se call kiya jata hai. `partition()` function, jo ek pivot ko choose karta hai, use array mein sahi jagah par le jata hai aur pivot ke left aur right mein elements ko swap karta hai.

Fir `sort()` function, pivot ke left aur right wale array ko sort karne ke liye recursive tarike se call kiya jata hai. Final sorted array ko print karne ke liye, ek `for` loop use kiya jata hai.

Yeh implementation Quick Sort ka ek basic example hai, aur isko optimize kiya ja sakta hai taki yeh aur bhi efficient ho sake.

Regenerate response