

JAWABAN NO 2

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MK : Algoritma struktur Data 2

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Quick Sort

```
public class Quick sort {  
    private int [] data ;  
    public void setData (int [] data) { this.data = data;  
    private int partition (int start, int end)  
    {  
        int pivot = this.data [end];  
        int i = (start - 1);  
        for (int j = start; j <= end - 1; j++)  
        {  
            if (this.data [j] < pivot)  
            {  
                j++;  
                int t = this.data [j];  
                this.data [j] = this.data [i];  
                this.data [i] = t;  
            }  
        }  
        int t = this.data [i];  
        this.data [i] = this.data [end];  
        this.data [end] = t;  
        return (i);  
    }  
    public void quicksort (int start, int end)  
    {  
        if (start < end)  
        {
```

```

int p = partition ( start, end );
    quicksort ( start, p-1 );
    quicksort ( p+1, end );
}
}

public void printarr (int n)
{
    int j ;
    for ( j = 0 ; j < n ; j++ )
        system.out.print ( this.data[j] + " " );
}

public static void main (String [] args) {
    int [] data array = { 90, 72, 65, 100, 63, 72 };
    int n = data array.length ;
    system.out.println ( "" );
    Before sorting array element are - 15
    " " );
    quicksort - myqs = new quicksort ();
    - myqs.setdata ( data array );
    - myqs.printarr ( n );
    - myqs.quicksort ( 0, n-1 );
    system.out.println ( " " );
    After sorting
    array elements are - " );
    - myqs.printarr ( n );
    system.out.println ( ) ;
}
}

```

