New Section 1 Page

$$\begin{bmatrix} 8,12,2),31, & 14,32 \end{bmatrix}$$

 $\begin{bmatrix} 8,12,25,17,31,32 \end{bmatrix}$
 $\begin{bmatrix} 8,12,17,25,31,32 \end{bmatrix}$

1) Merge Scat

2) Quick Sort

(3) Bucket Sort.

26 September 2023 20:18

Task is to sort the list.

$$San := \begin{bmatrix} 24, 9, 29, 14, 19, 27 \end{bmatrix}$$

Since, the pivot is at the left, so the algorithm storts from night of more towards left.

Nr., lst[prot] < lst[right]
$$\frac{24}{27}$$

the algorithm mores the right to the next volu-

(24, 9, 29, 14, 19, 27) -[- ((night) = 24 (Arsumpts)) 24 < 27 $29 \times [19, 9, 29, 14, 24, 27]$ 19<24 ~ 29<24× [19,9,24,14,29,27] 26 September 2023 20:53

Bucket SoA:-

By
$$i_{10}$$
 [10, 8, 20, 7, 16, 18, 12, 1, 23, 11]

BY 0-5, 5-10, 10-15, 15-20, 20-25

DATE [10, 8, 7] [12, 11] [26,16,18]

[1] [10, 8, 7] [12, 11] [26,16,18] [23]

[1] [10, 8, 7] [12, 11] [26,16,18] [23]

[1] [20-5] [5-10] [10-15] [15-20] [20-25]

$$\begin{bmatrix} 1 \end{bmatrix} \begin{bmatrix} 7,8,10 \end{bmatrix} \begin{bmatrix} 11,12 \end{bmatrix} \begin{bmatrix} 16,18,20 \end{bmatrix} \begin{bmatrix} 23 \end{bmatrix}$$

$$\begin{bmatrix} 6-5 \end{bmatrix} (5-10) (10-15) (15-20) (20-25)$$

$$\begin{bmatrix} 1,7,8,10,11,12,16,18,20,23 \end{bmatrix}$$