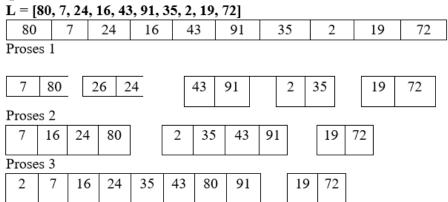


4. a)Merge sort



2	7	16	19	24	35	43	72	80	91	
b) Quick sort										
L = [80]	, 7, 24	, 16, 43	3, 91, 3	5, 2, 19	, 72]					
80	7	24	16	43	91	35	2	19	72	
Pivot										
80	7	24	16	43	91	35	2	19	72	
Low									High	
									Pivot	
72	7	24	16	43	91	35	2	19	80	
Low				•			•		High	
									Pivot	
72	7	24	16	43	91	35	2	19	80	
		•		•	Low		•		High	
					Pivot					
72	7	24	16	43	80	35	2	19	91	
					Low			D: .	High	
70		24	1.0	42	10	2.5		Pivot	0.1	
72	7	24	16	43	19	35	2	80	91	
					Low			High		
Pivot										
72	7	24	16	43	19	35	2	80	91	
Low							High			
							Pivot			
2	7	24	16	43	19	35	72	80	91	
Low							High			
							-			
Pivot										
2	7	24	16	43	19	35	72	80	91	
Low						High				
	Pivot									
	11000	•								

2	7	24	16	43	19	35	72	80	91
	Low					High			
		Pivot							
2	7	24	16	43	19	35	72	80	91
		Low				High			72
						0			
		Pivot							
2	7	24	16	43	19	35	72	80	91
		Low			High				
					Pivot				
2	7	19	16	43	24	35	72	80	91
		Low			High				
					Pivot				
2	7	19	16	43	24	35	72	80	91
				Low	High				
				Pivot					
2	7	19	16	24	43	35	72	80	91
				Low	High				
		Pivot							
2	7	19	16	24	43	35	72	80	91
		Low	High						
			Pivot						
2	7	16	19	24	43	35	72	80	91
		Low	High						
	-		40	0.4	Pivot	2.5	70	00	0.1
2	7	16	19	24	43	35	72	80	91
					Low	High			
	_					Pivot		-	
2	7	16	19	24	35	43	72	80	91
					Low	High			
2	7	16	19	24	35	43	72	80	91