

Quiz 5 sort & search

Q.1:

Merge sort

5 2 3 6 0 8

[5 2 3]₁, [6 0 8]₂

[5 2]₃ [3]₄ [6 0]₅ [8]₆

[5]₇ [2]₈ [3]₉ [6]₁₀ [0]₁₁ [8]₁₂

[2 5]₁₃ [3]₁₄ [0 6]₁₅ [8]₁₆

[2 3 5]₁₇ [0 6 8]₁₈

[0 2 3 5 6 8]

2 Binary search 6 from

[1 2 3 4 6 7]

[1 2 3]₁ [4 6 7]₂ $M=4$ $H=7$

[1 2 3]₃ [4 6]₄ [7]₅ $M=4$ $H=7$

[1 2 3]₆ [4]₇ [6]₈ [7]₉ $M=L=6$