

1st

as pivot

①

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110, 147, 128, 111, 149, 151, 141, 123, 112, 117, 123

Pivot.

2) 133, 110, 147, 122, 111, 149, 151, 141, 123, 112, 117, 157

3) 133, 110, 117, 122, 111, 149, 151, 141, 123, 112, 147

4) 133, 110, 117, 122, 111, 112, 151, 141, 123, 129, 147

5) 133, 110, 117, 122, 111, 112, 123, 141, 151, 149, 147

6) 123, 110, 117, 122, 111, 112

141, 151, 149, 147

7) 112, 110, 117, 122, 111, 123

111, 151, 141, 101, FII {3}

8) 123, 110, 117, 122, 111, 123
133
141, 147, 149, 151

111, 151, 141, 101, FII {3}

9) 112, 110, 117, 122, 111

110, 111, 142, 127, 123,
133, 141, 147, 149, 151

10) 111, 110, 112, 122, 117

110, 111, 142, 127, 123,
133, 141, 147, 149, 151

11) 110, 110, 117, 122, 123, 141, 151, 149, 147, 151

last as pivot

1) 117, 110, 147, 122, 111, 149, 151, 141, 123, 117, 133

2) 117, 110, 147, 122, 111, 149, 151, 141, 123, 112, 157, 133

3) 117, 110, 112, 122, 111, 149, 151, 141, 123, 147, 157, 133

4) 117, 110, 112, 122, 111, 123, 151, 141, 149, 147, 157, 133

5) 117, 110, 112, 122, 111, 123, 133, 141, 149, 147, 157, 151

117, 110, 112, 122, 111, 123

6) 117, 110, 112, 122, 111

7) 110, 117, 112, 122, 111

8) 110, 112, 117, 122, 111

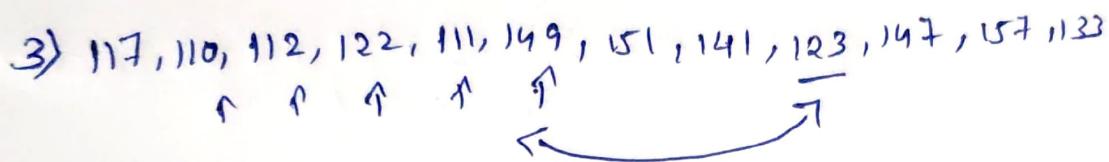
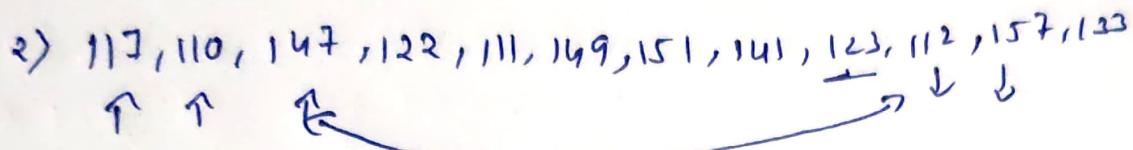
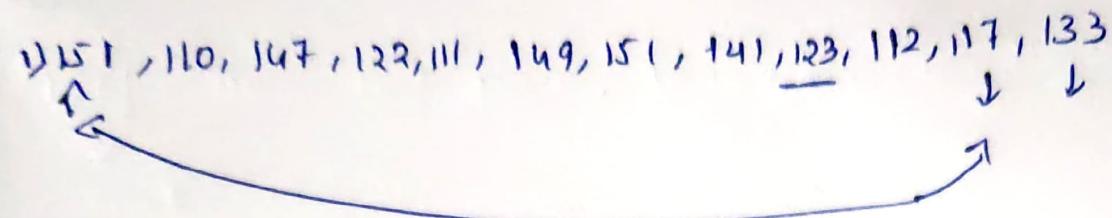
9) 110, 111, 112, 122, 117

110, 111, 122, 117

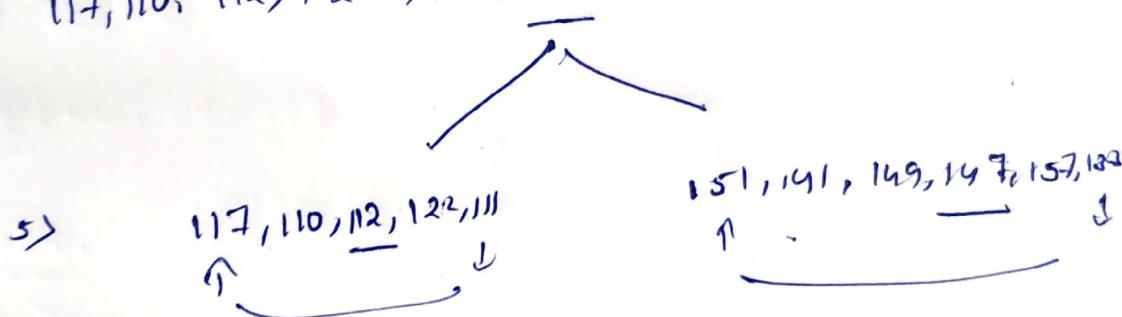
117 122

Sorted = 110, 111, 112, 117, 122, 133, 141, 147, 149, 157, 151

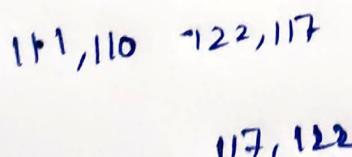
Random Element As Pivot



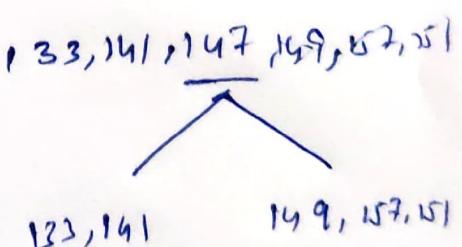
4) 117, 110, 112, 122, 111, 123, 151, 141, 149, 147, 157, 133



5) 117, 110, 112, 122, 117



133, 141, 149, 147, 157, 133



- 149, 151, 157

110, 111, 112, 117, 122, 123, 133, 141, 147, 149, 151, 157.