

1 Binary Search Visualization

Initial Array

0	1	2	3	4	5	6	7	8	9	10
8	4	3	10	12	15	18	7	1	0	22

Sorted Array

0	1	2	3	4	5	6	7	8	9	10
0	1	3	4	7	8	10	12	15	18	22

Step 1

0	1	2	3	4	5	6	7	8	9	10
0	1	3	4	7	8	10	12	15	18	22

Left

Mid

Right

Step 2

0	1	2	3	4	5	6	7	8	9	10
0	1	3	4	7	8	10	12	15	18	22

Left

Mid

Right

Step 3

0	1	2	3	4	5	6	7	8	9	10
0	1	3	4	7	8	10	12	15	18	22

Left

Mid

Right

Final Step

0	1	2	3	4	5	6	7	8	9	10
0	1	3	4	7	8	10	12	15	18	22