

Linear Search.

→ Array traversal

2 found.

Linear Search.

→ Array traversal

2 → Search for this element

Sorted + unsorted

Binary Search.

Condition = Sorted array ✓

Low mid High

2 8 14 32 66 100 104 200 400

0 1 2 3 4 5 6 7 8

Book. 1000 pages

500 → 250

238

Linear Search.

Mid = G.I.F($\frac{High+Low}{2}$), G.I.F = Greatest Integer Function

Linear Search.

2 → Search for this element

Sorted + unsorted

Binary Search.

Condition = Sorted array ✓

Low mid High

2 8 14 32 66 100 104 200 400

0 1 2 3 4 5 6 7 8

Book. 1000 pages

500 → 250

238

Linear Search.

Search space

Low High

Mid

Low High

Search 200

Low High

0 8

4 8

6 8

mid Element found

4 ⇒ No

6 ⇒ No

7 ⇒ Yes ✓