

1	3	5	7	9	11	13	15	17	19	21	23	25	27	29
---	---	---	---	---	----	----	----	----	----	----	----	----	----	----

n = 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 ↑ l ↑ h

* Key = 21

l	h	mid	
1	15	8	: 15 < 21 ⇒ l = m + 1 = 8 + 1 = 9
9	15	12	: 23 > 21 ⇒ h = m - 1 = 12 - 1 = 11
9	11	10	: 19 < 21 ⇒ l = m + 1 = 10 + 1 = 11
11	11	11	: 21 = 21 ✓

* Key = 7

l	h	mid	
1	15	8	: 15 > 7 ⇒ h = mid - 1 = 8 - 1 = 7
1	7	4	: 7 = 7 ✓

* Key = 18

l	h	mid	
1	15	8	: 15 < 18 : l = mid + 1 = 9
9	15	12	: 23 > 18 : h = mid - 1 = 11
9	11	10	: 19 > 18 : h = mid - 1 = 9
9	9	9	: 17 < 18 : l = mid + 1
10	9		x since l > h