

therefore the length is 4.

10,9,2,5,3,7,101,18,6,1

dp[i] = Math.max(x, dp[i]);

0269

0 (01216)

int[] arr =  $\{0, 8, 4, 2, 12, 10, 6, 14, 1, 9, 5, 13, 3, 11, 7, 15\};$ 

14 614 6269 0269 026911
026 0269 026911
026 0269 026911
026 0269 026911
026 0269 026911
026 0269 026911

0219

026513

0269

14: 0 Co1216114] 5: 0 Co111919 | 11: 0 Co1131911)
02
015

026

 $\leftarrow$  int x = dp[j] + 1;

54221

**if** (arr[j] < arr[i]) {

Explanation: The longest increasing subsequence is [2,3,7,101],

10 101

232

15:

2 5 7 10 1