

[false, false, false, false, false, false]

initial state;

[100, 4, 200, 1, 3, 2]

longest = 0

i = 100:

[true, false, false, false, false, false]

[100, 4, 200, 1, 3, 2]

length = 1. longest = max(0, 1) = 1.

i = 4:

[true, true, false, false, false, false]

[100, 4, 200, 1, 3, 2]

length = 1



[true, true, false, false, true, false]

[100, 4, 200, 1, 3, 2]

length = 1 + 1 = 2



[true, true, false, false, true, true]

[100, 4, 200, 1, 3, 2]

length = 2 + 1 = 3



[true, true, false, true, true, true]

[100, 4, 200, 1, 3, 2]

length = 3 + 1 = 4, longest = max(1, 4) = 4

$\bar{i} = 200$:

[true, true, true, true, true, true]

[100, 4, 200, 1, 3, 2]

return longest