300. Longest Increasing Subsequence

10	9	2	5	3	7	101	18

↳ 9 > 10?

10	9	2	5	3	7	101	18

↳ 2 > 10?

10	9	2	5	3	7	101	18

↳ 2 > 9?

10	9	2	5	3	7	101	18

↳ 5 > 10?

10	9	2	5	3	7	101	18

↳ 5 > 9?

10	9	2	5	3	7	101	18

↳ 5 > 2?

10	9	2	5	3	7	101	18

↳ 3 > 2?

10	9	2	5	3	7	101	18

↳ 7 > 2 → dp = 2
↳ 7 > 5 → dp = 3
↳ 7 > 3 → dp = 3

10	9	2	5	3	7	101	18

↳ 101 > 10 → dp = 2
↳ 101 > 9 → dp = 2
↳ 101 > 2 → dp = 2
↳ 101 > 5 → dp = 3
↳ 101 > 3 → dp = 3
↳ 101 > 7 → dp = 4

10	9	2	5	3	7	101	18

↳ 18 > {10, 9, 2, 5, 3, 7} → max dp = 4

1	1	1	1	1	1	1	1

1	1	1	1	1	1	1	1

1	1	1	1	1	1	1	1

1	1	1	1	1	1	1	1

1	1	1	1	1	1	1	1

1	1	1	2	1	1	1	1

→ caso prev < actual, se saca el valor de dp[j]
↳ se compara cual es mayor dp[i] o dp[j]+1

1	1	1	2	2	1	1	1

1	1	1	2	2	3	1	1

1	1	1	2	2	3	4	1

1	1	1	2	2	3	4	4

→ se retorna el max de dp