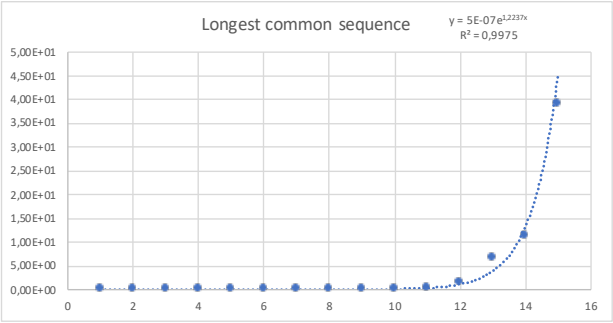


Size (n)	Time (s)
1	2,86E-06
2	5,01E-06
3	1,72E-05
4	5,72E-05
5	0,000192165
6	0,000741959
7	0,002493858
8	0,005534887
9	0,026319981
10	0,103884935
11	0,323891878
12	1,632820845
13	6,674180031
14	11,23176384
15	38,95291305

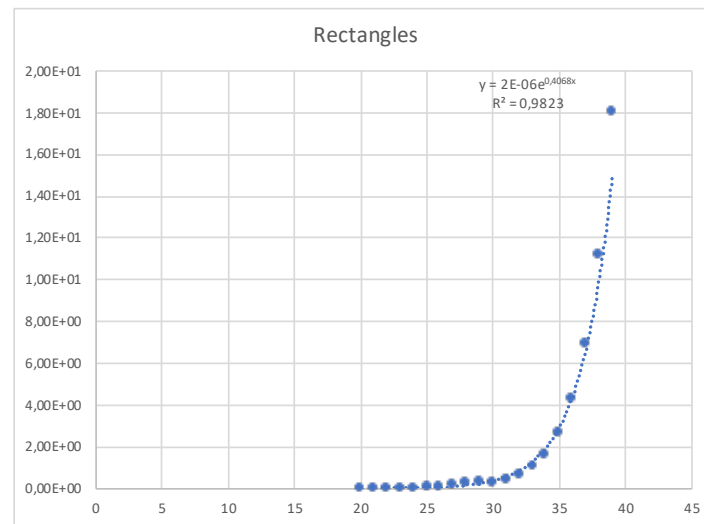
Common sequence by complexity	
Tamaño (n)	300
Tamaño total	1,E+91
Segundos (Tt/2GHz)	6,11110792900346E+81
Horas	1,697530E+78



3.3) Taking in account the algorithm's complexity, this WOULDN'T be the one for taking this problem, because the number of instructions to solve it raises at 2^n , so for a 300.000 size of (n) it would take $2^{300.000}$ instructions. Not even the computer is able to calculate the number. In yellow is an example of 2^{300} .

$$T(n) = (2^n - 1) (c1 + c3) + c_1 2^{(n - 1)}$$

Size (n)	Time (s)
20	6,20E-03
21	4,55E-03
22	1,29E-02
23	2,36E-02
24	0,04935503
25	0,079976082
26	0,100703001
27	0,176604033
28	0,24488306
29	0,347311974
30	0,278718948
31	0,402431965
32	0,634913206
33	1,017865181
34	1,632277012
35	2,63162899
36	4,297087908
37	6,946293831
38	11,17777205
39	18,06480503



Common sequence by complexity	
Tamaño (n)	300
Tamaño total	1,E+91
Segundos (Tt/2GHz)	6,11110792900346E+81
Horas	1,697530E+78

3.3) Taking in account the algorithm's complexity, this WOULDN'T be the one for taking this problem, because the number of instructions to solve it raises at 2^n , so for a 300.000 size of (n) it would take $2^{300.000}$ instructions. Not even the computer is able to calculate the number. In yellow is an example of

$$T(n) = C1 + T(n-1) + T(n-2)$$