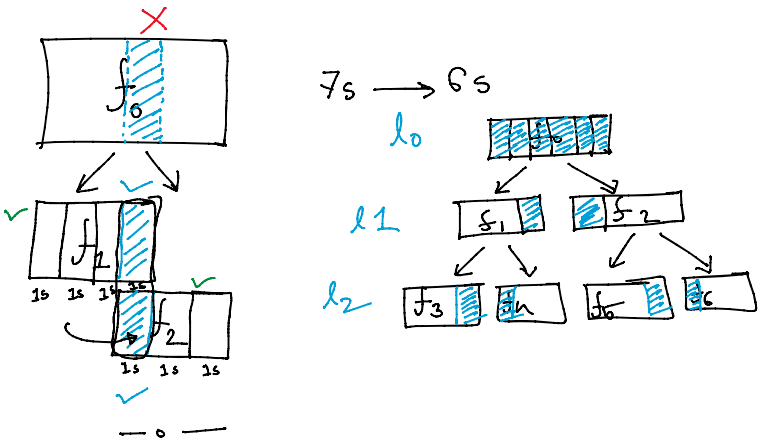
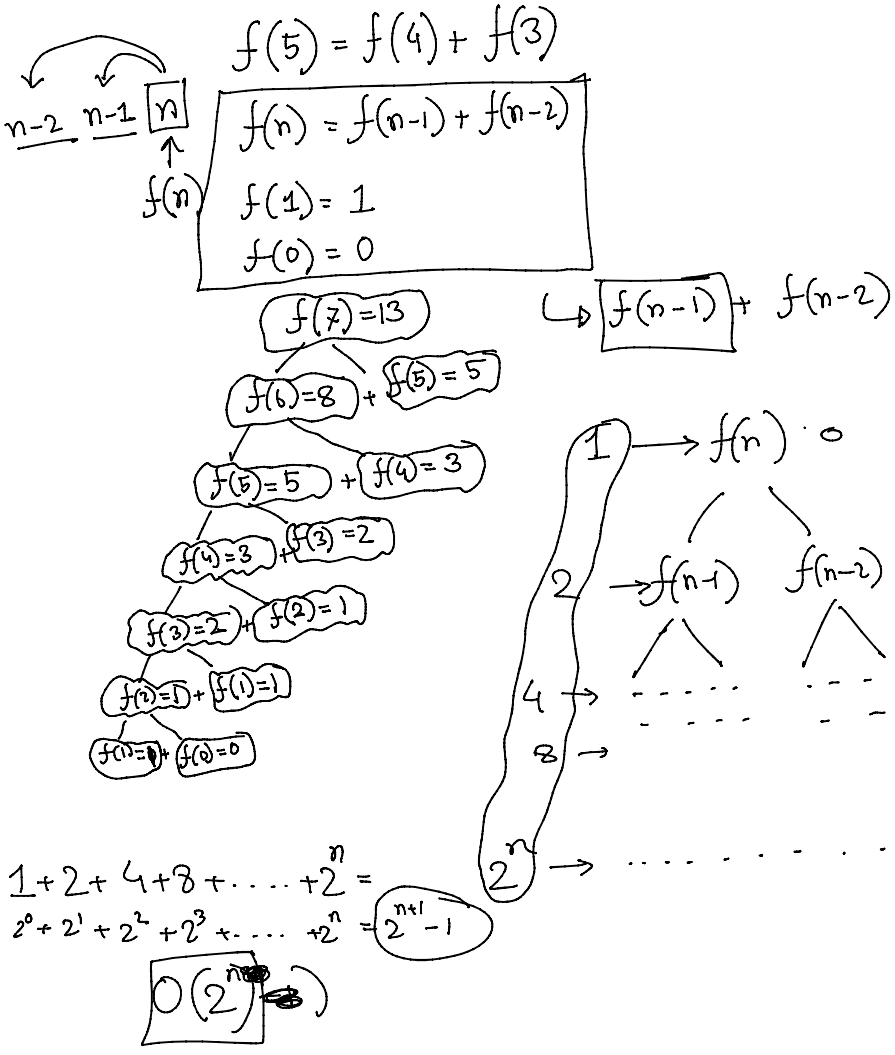
Dynamic Programming

Friday, October 2, 2020 10:25 PM



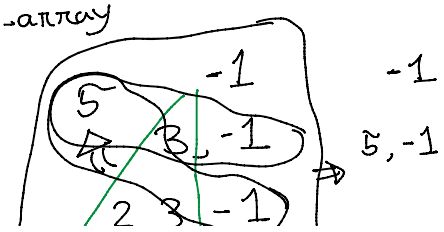
① fibonacci

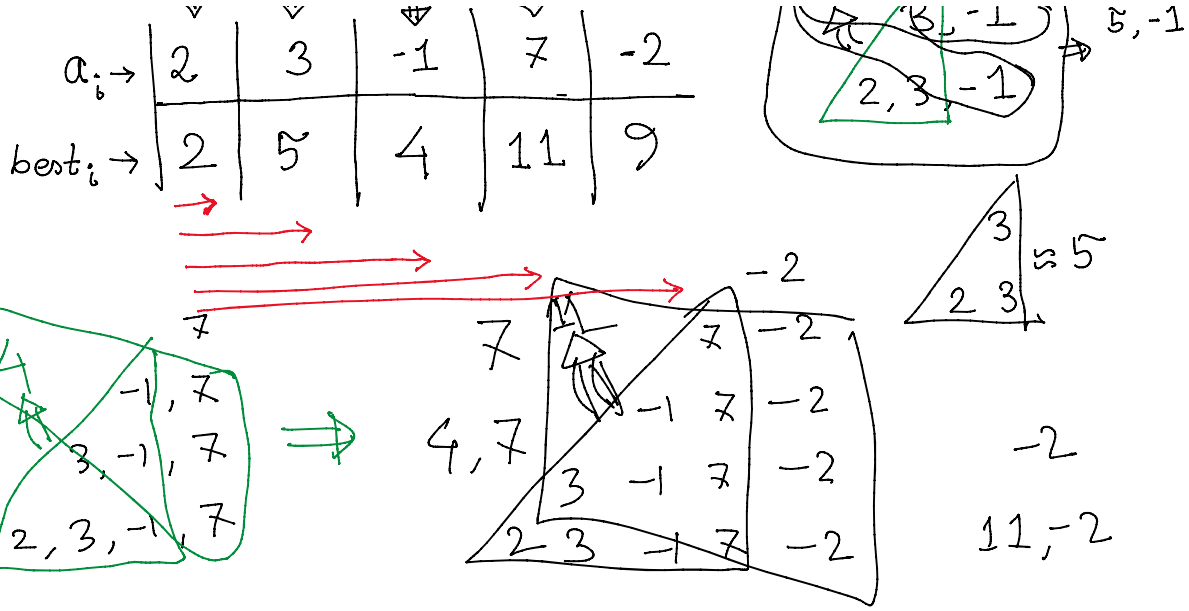
0, 1, 1, 2, 3, 5, 8, 13, ...



#) Kadane's algorithm → Maximum Sum Sub-array

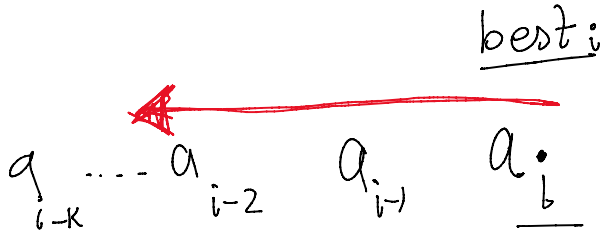
a_i →	2	3	-1	7	-2

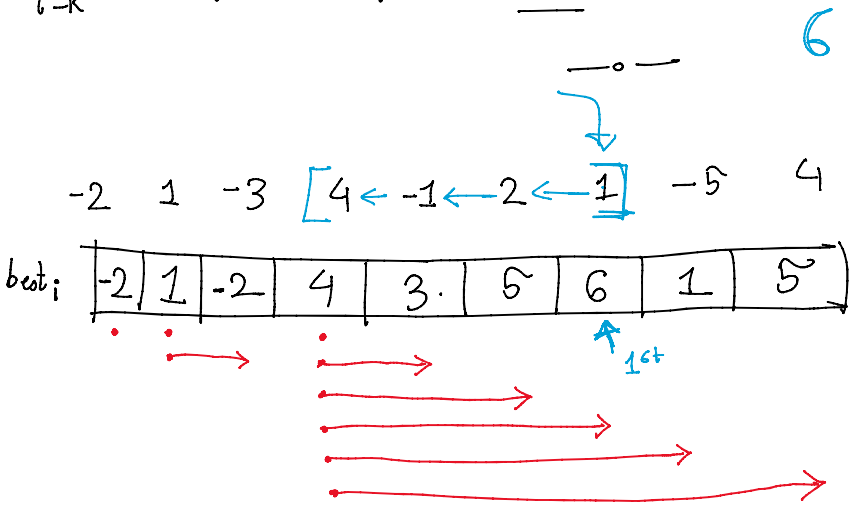


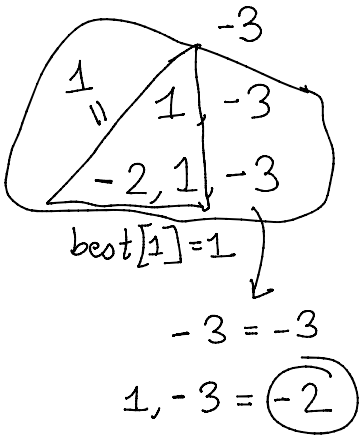


$$n \times \frac{(n-1)}{2} \approx n^2$$

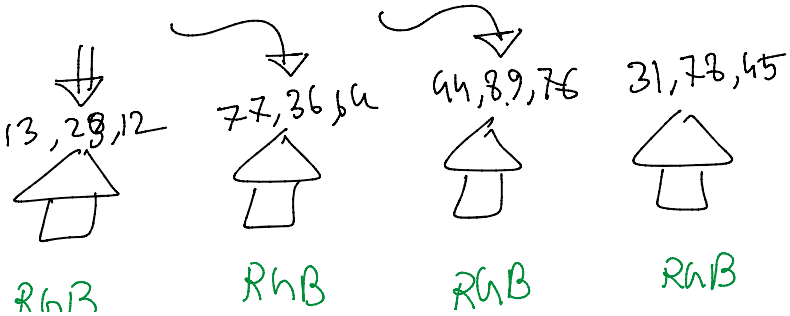
$$n \times 1 \approx n$$







#3 LOJ – Neighbor's House



RGB

R→13
G→23
B→12

RGB

R→89
G→48
B→77

RGB

R→92
G→166
B→124

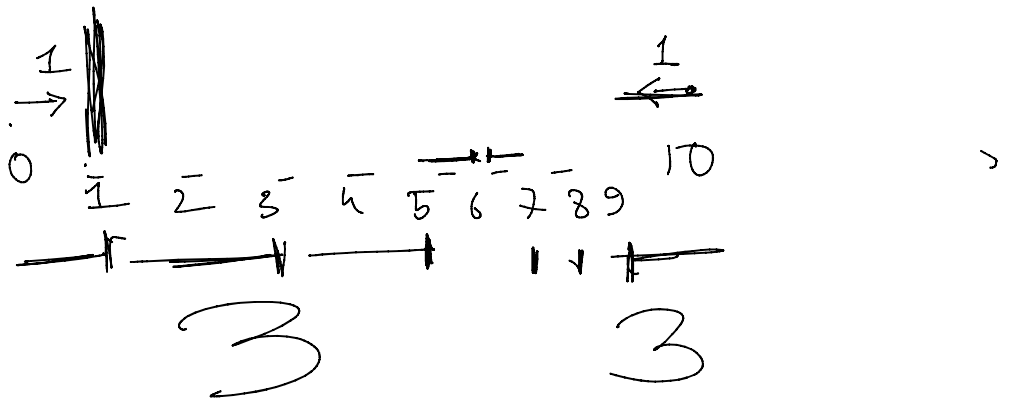
RGB

R→155
G→170
B→137

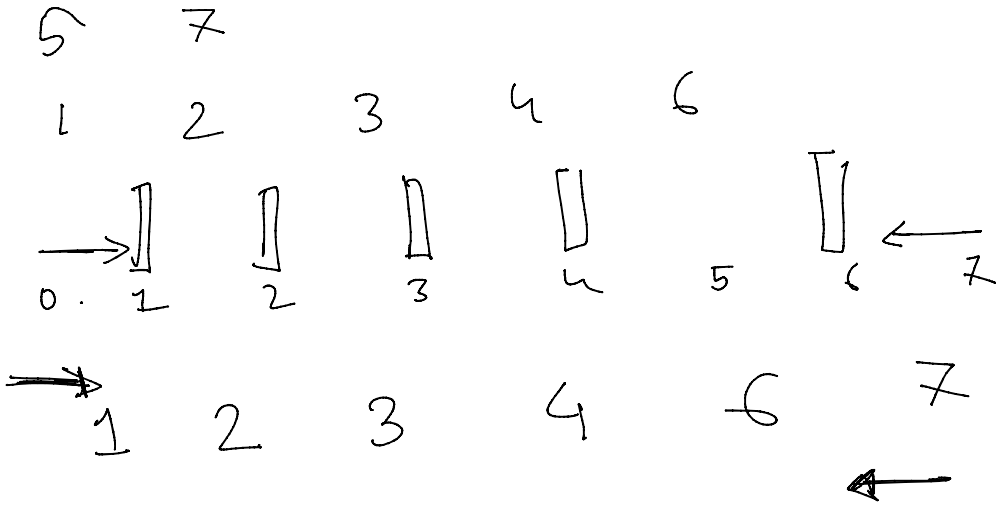
dp[0][0] R

[0][1] G

[0][2] B



$3 + \frac{2}{3} = 3.6666\ldots$



1 3 4 5 6 7