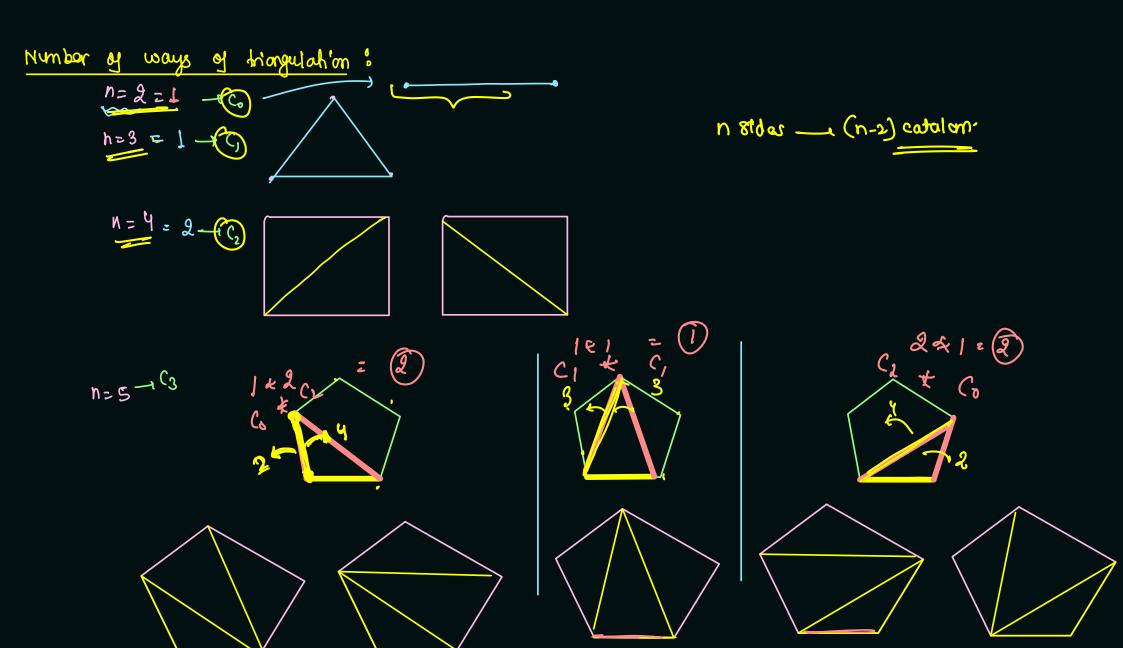
Catalom Number :-Complexity \rightarrow $O(n^2)$ $C_1 \rightarrow 1$ $C_2 \rightarrow 2$ $C_3 \rightarrow C_0 \cdot C_2 + C_1 \cdot C_1 + C_2 \cdot C_0 = |*2 + |*| + |*| + |*| = |*| + |*| + |*| = |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| + |*| +$ Complexity -> O(n2) Cs -> Co-Cq + C1.C3+ C2-C2+C3.C1+ C4.C0 = 1x14+ 1x5+ 2x2+ 5x1+ 14R1 = 14+ Sty+ St14 Co·Cn+ + C1·Cn-2 + C2·Cn-8 + - · · · + Cn+·Co for every? O 1 2 3 1 4 5 14 (42) 14 5 4 4 5 4 14



n=6 C4 - 14 PB-3 44 Cat C1 C3 et Co C1 * C2 Co * Cg S& 1 1 & 2 ا م 1 \$ 5 t Cata lam Klum

