Count Of Valleys And Mountains

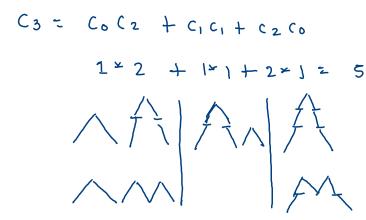
η

(n pairs)
Lupstroke/
Ldownstrok

woys

\_ 1





3

## **Count Brackets**

- 1. You are given a number n, representing the number of opening brackets ( and closing brackets )
- 2. You are required to find the number of ways in which you can arrange the brackets if the closing brackets should never exceed opening brackets  $\gamma$

balanced paranthesis
expressions

opening and closing brackets

Same as previous

/-> (

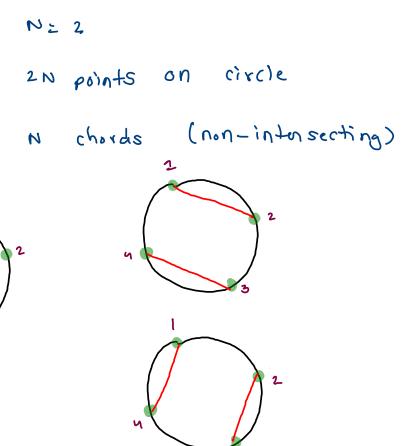
n = 2

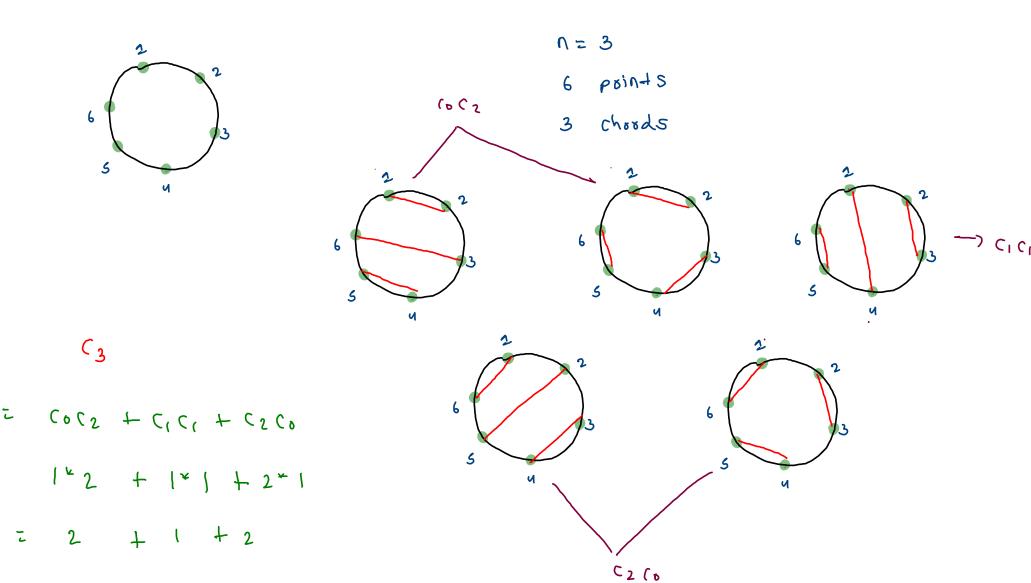
## Circle And Chords

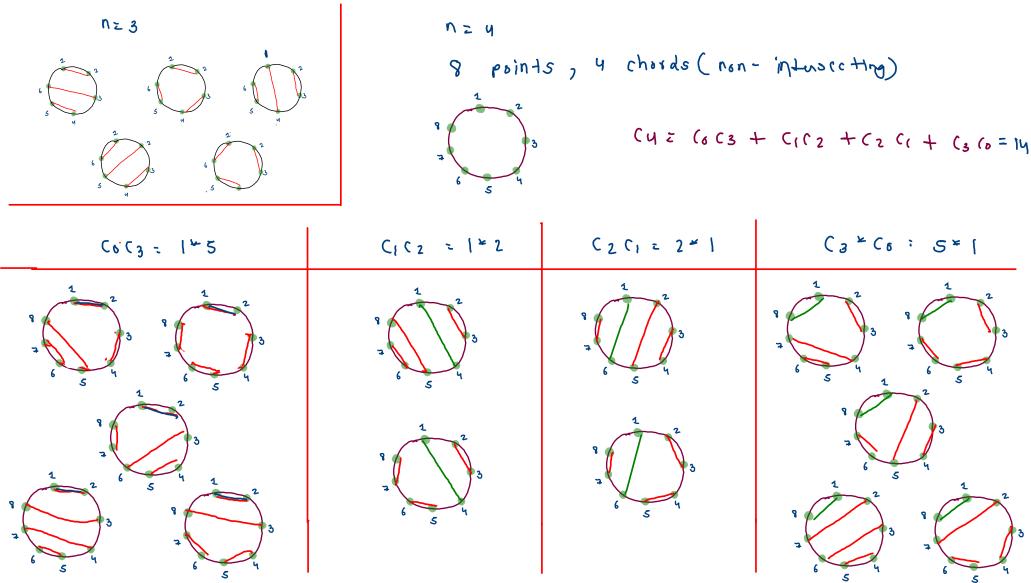
- 1. You are given a number N.
- 2. There are 2\*N points on a circle. You have to draw N non-intersecting chords on a circle.
- 3. You have to find the number of ways in which these chords can be drawn.

h= 2

2 ways







## Number Of Ways Of Triangulation

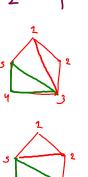
1= 4

- 1. You are given a number N, which represents the number of sides in a polygon.
- 2. You have to find the total number of ways in which the given polygon can be triangulated.

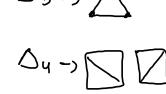
tri angle

(1)

base rase N= 3



(2(0



△° → ×

N= 6

n: 5 (C3)