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...E.A.S.Y...



Pascal's

Triangle - II

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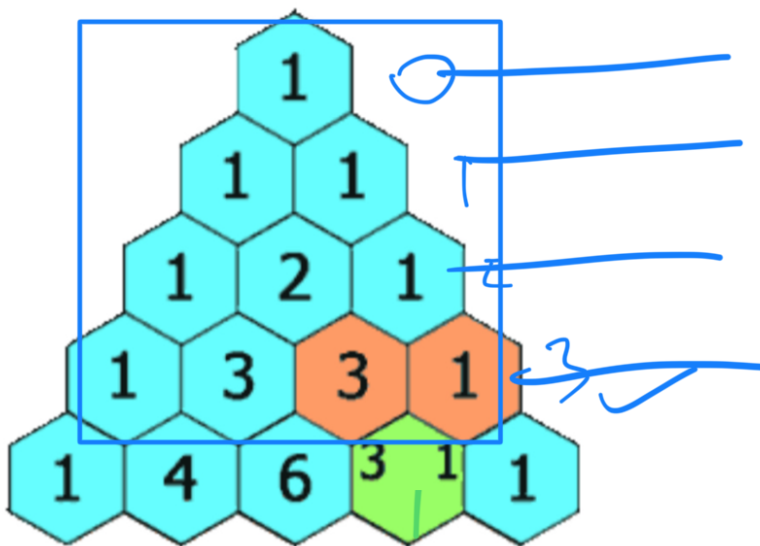
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119. Pascal's Triangle II

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Given an integer rowIndex, return the rowIndexth (0-indexed) row of the Pascal's triangle.

In Pascal's triangle, each number is the sum of the two numbers directly above it as shown:

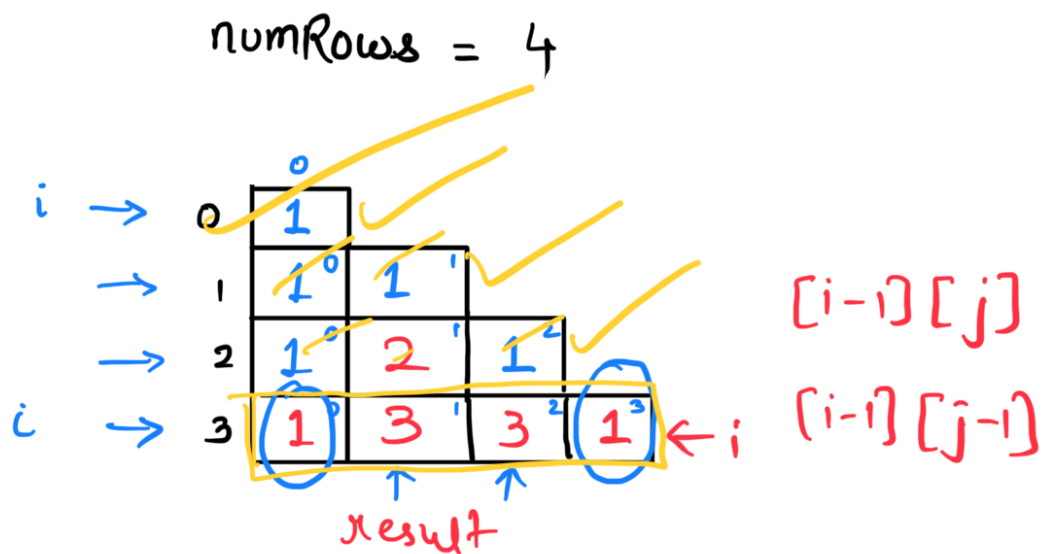


Example :- rowIndex = 3 ←

Output = {1, 3, 3, 1} ←

Quick Revision of

Pascal's Triangle - I



return result[3];

for (i = 0 ; i < numRows ; i++) {

prev
curr

vector<int> vec (i+1, 1);

for (j=1; j < i ; j++) {

curr[i] =

result[i][j] =

$curr[j] = Prev[j] + Prev[j-1];$

$result[j] = result[i-1][j] + result[i-1][j-1];$

}

return result[numIndex];

Removing Extra Space :-

~~2~~

vector<vector<int>> result(rowIndex+1);

0	1		
1	1	1	Prev
2	1	2	1
3	1	3	3

$i=0$ Prev = { }
Curr = { 1 }

$i=1$ Prev = Curr

$$i=1 \quad \text{prev} = \text{curr} = \{1\}$$

$$\text{curr} = \{1, 1\}$$

$$i=2$$

$$\text{prev} = \text{curr} = \{1, 1\}$$

$$\text{curr} = \{\underline{1}, \underline{2}, \underline{1}\}$$

$$\begin{aligned} \text{curr}[1] &= \text{prev}[1] + \text{prev}[0] \\ &= 1 + 1 = 2 \end{aligned}$$

the 'information' and 'communication' fields. The 'information' field is defined as:

...the study of the processes of information production, distribution, access, use and evaluation, and the study of the social, cultural, economic and political contexts in which these processes take place. (p. 10)

The 'communication' field is defined as:

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