

$$-10 \leq \text{num} \leq 10$$

21

2		
<u>2</u>		

3

2	2	
2	<u>3</u>	

3

2	3	2
---	---	---

2, 2, 3 ✓
2, 3, 2 ✓

3, 2, 2 ✓

Permutation 2

2	2	3
---	---	---

2	2	3
---	---	---

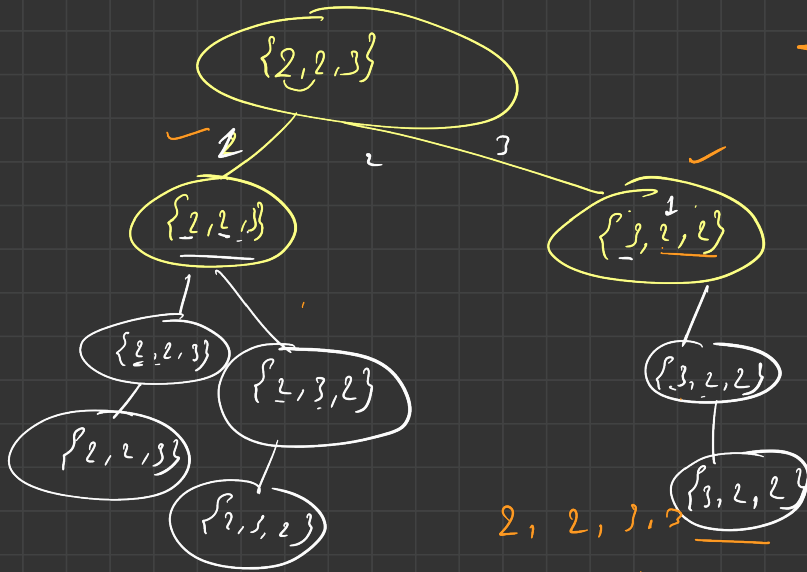
2	2	3
---	---	---

$$\frac{3!}{2!} = 3$$

2, 2, 3, 3

$$\frac{4!}{2! \times 2!} = \frac{24}{4} = 6$$

-6



2, 2, 3, 3

2	2	3
---	---	---

2	2	3
---	---	---

2 | 3, 3, 2

2 3 3 2

2 3 2 3

2 2 3 3

←

2 | 3, 2, 3

2 3 2 3

2 3 3 2

2 2 3 3

←

-10

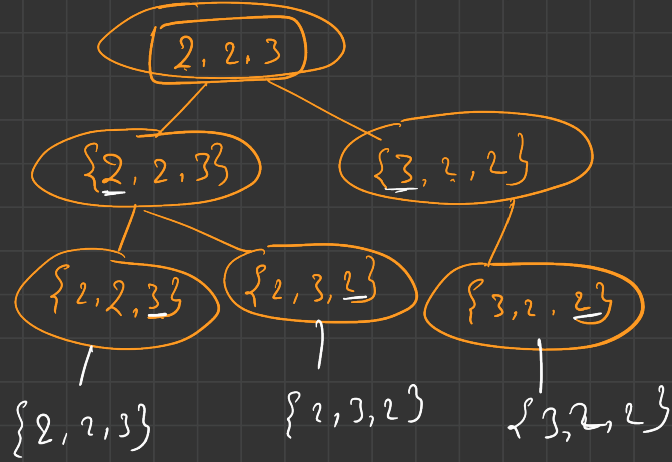
0 1 2 . . . - -

10

20

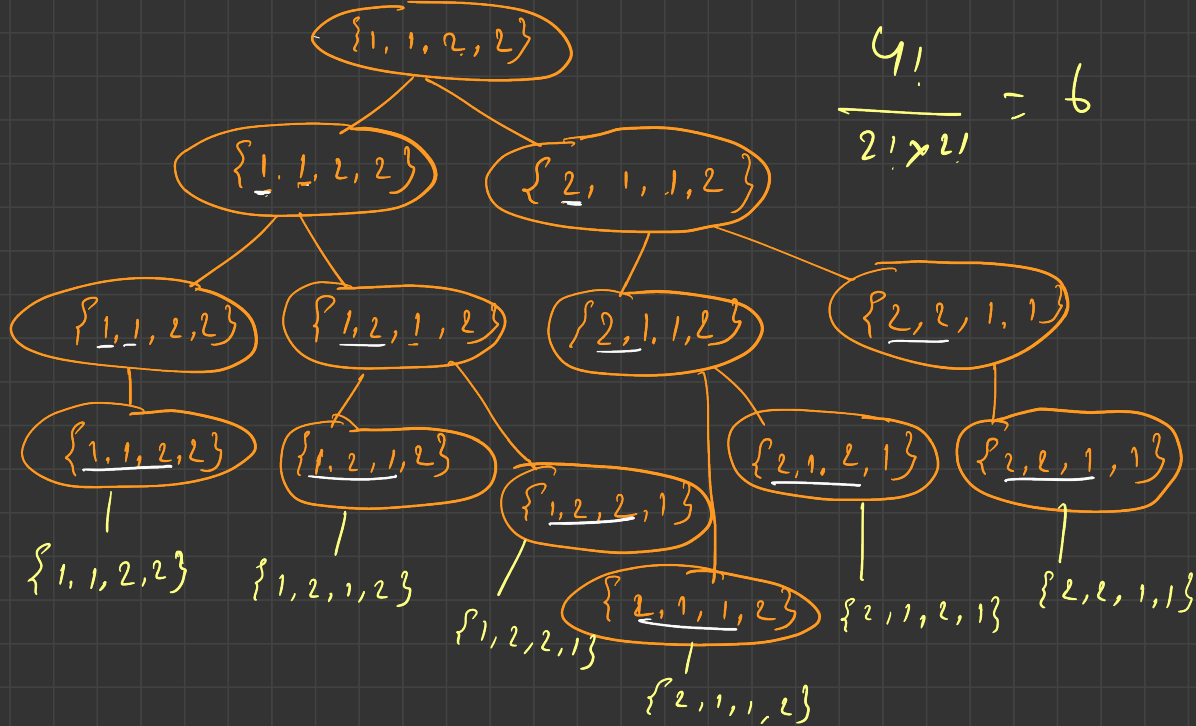
21 21 21

8001



$\begin{array}{r} 1, 1, 2, 2 \\ \hline 1, 2, 1, 2 \\ \hline 1, 2, 2, 1 \\ \hline 2, 1, 1, 2 \\ \hline 2, 1, 2, 1 \\ \hline 2, 2, 1, 1 \end{array}$

$$\frac{4!}{2! \times 2!} = 6$$



11
119 void

0
11/1/2/2

1 & 10

11

Permut (<vector<int>& arr, vector<vector<int>>& ans,
int index)

if (index == arr.size()) {
ans.push_back(arr);
return;

}

vector<bool> use(2, 0);

for (i = index; i < arr.size(); i++) {

if (use[arr[i] + 10] == 0) {

swap(arr[index], arr[i]);

permut(arr, ans, index + 1);

swap(arr[index], arr[i]);

use[arr[i] + 10] = 1;

}

}

}

Ways to sum to N

1	5	6
---	---	---

sum = 7

$$1 + 1 + 1 + 1 + 1 + 1 + 1 = 7$$

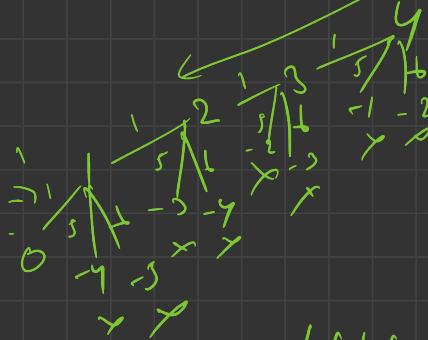
$$1 + 1 + 5 = 7$$

$$1 + 6 = 7$$

$$1 + 5 + 1 = 7$$

$$6 + 1 = 7$$

$$5 + 1 + 1 = 7$$



1+1+

{1, 5, 6} s=2

