

0 1 2
3 | 4 | 5
- - -

$\begin{array}{r} 4 \\ 9 \\ 3 \\ 8 \\ 7 \\ 12 \end{array}$

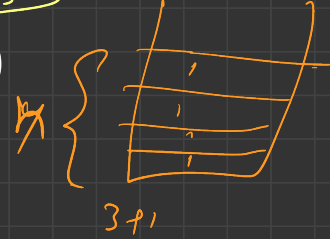
$\begin{array}{r} 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 4 \\ 4 \end{array}$

n

r

$\{3, 4, 5\}$

20
21
22
27



Made with Goodnotes

```

void print(int arr[], int index, int size, int sum) {
    if (index == n) {
        cout << sum << endl;
        return;
    }
    No | { print(arr, index+1, size, sum);
    Yes | { print(arr, index+1, size, sum+arr[index]);
}

```

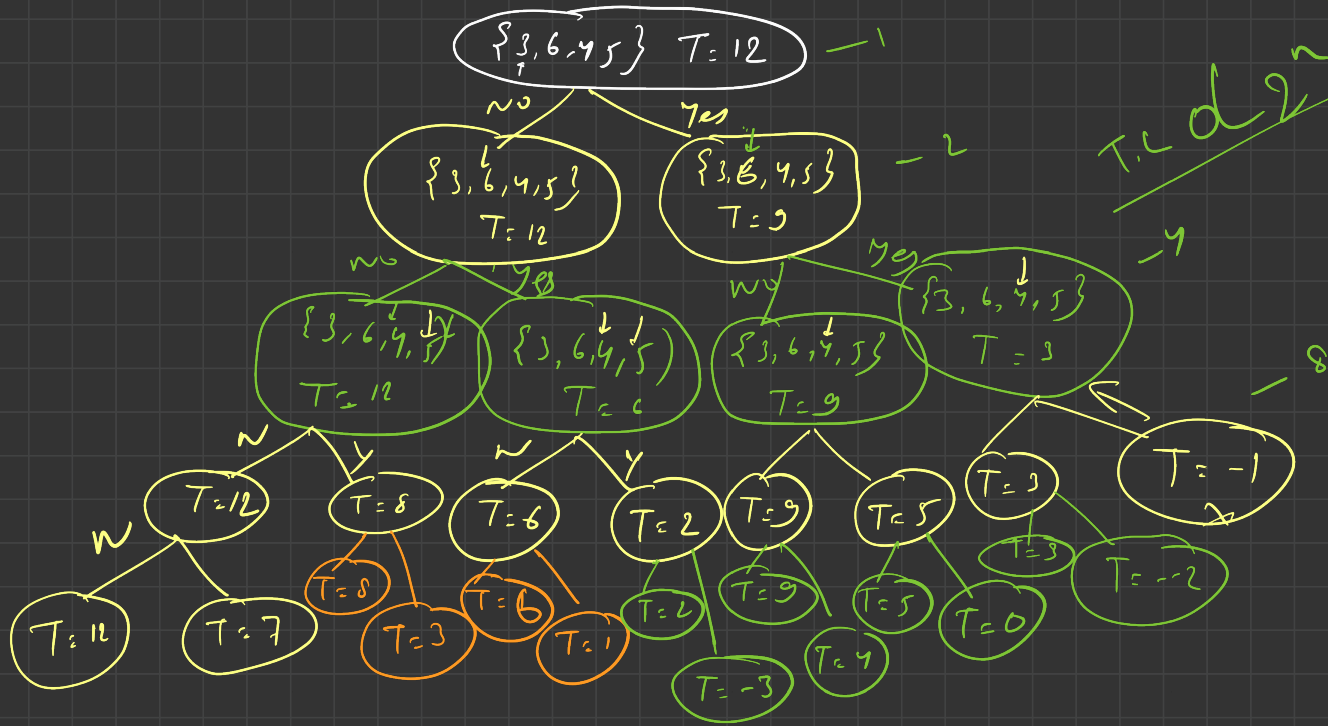
$$[2^0 + 2^1 + 2^2 + 2^3 + 2^4 + \dots + 2^n] = 2^{n+1} - 1$$

$T.C = O(2^n)$

Target Sum

3	6	4	5
2	2	2	2

Target = 12



Perfect Sum Problem

5	2	6	10	3	8	12
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Sum = 18

{ 2, 6, 10 }

{ 6, 10, 3 }

{ 10, 8 } = 4

{ 6, 12 }

