- Subarray with 0 sum
- array of positive and negative numbers.

Find if there is a subarray (of size at-least one) with 0 sum

What is SubArray?

```
subArray of { 10, 20, 30 }
{ 10 }
{ 10, 20 }
{ 10, 20, 30 }
{ 20 }
{ 20, 30 }
{ 30 }
```

- Subarray with 0 sum
- array of positive and negative numbers.

Find if there is a subarray (of size at-least one) with 0 sum

$$Sum = 0$$

NAIVE SOLUTION: 1) pick on element

2) create a subarray from it

3) check sum of it

Arr = { 4, -3, 2,1 }

```
bool isSubArray(int arr[], int n){
    for(int i=0; i<n; i++){
        int curr_sum = 0;
        for(int j=i; j<n; j++){
            curr_sum += arr[j];
            if(curr_sum == 0)
                return true;
    return false;
```

Time Complexity: O(N^2)

Efficient and Best solution :

We are using Hashing and Prefix sum

Understand the concept

