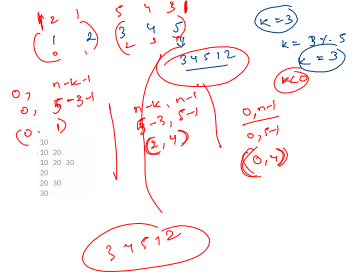
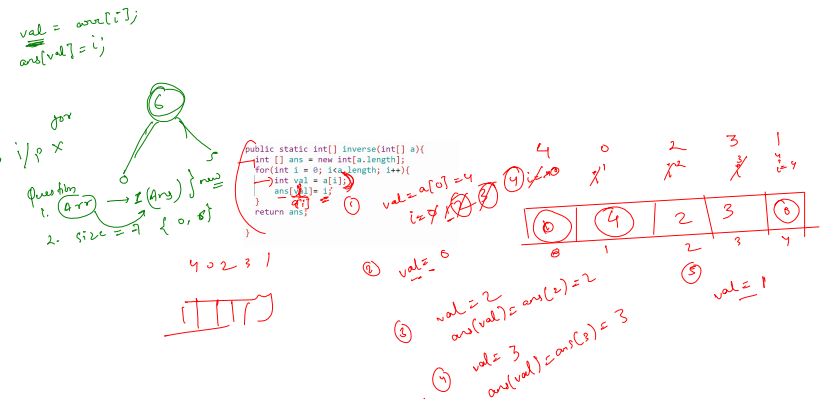
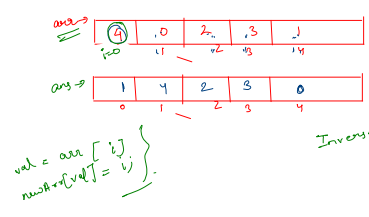


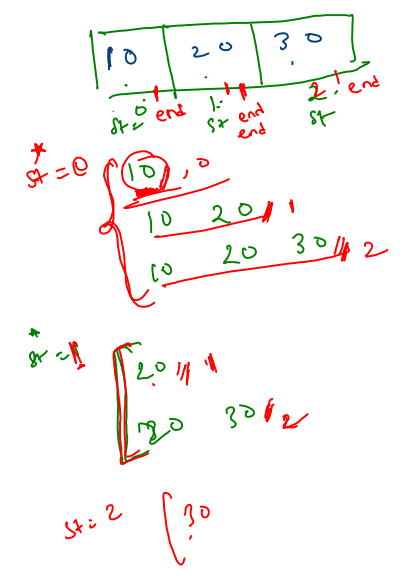
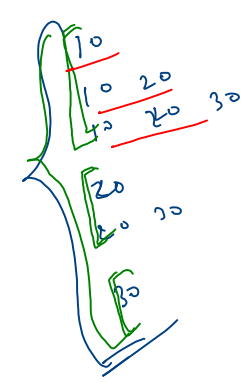
```
public static void main(String[] args) {
    int n = 5;
    int[] arr = {1, 2, 3, 4, 5};
    int ans = 0;
    for (int i = 0; i < n; i++) {
        for (int j = i; j < n; j++) {
            int sum = 0;
            for (int k = i; k <= j; k++) {
                sum += arr[k];
            }
            ans = Math.max(ans, sum);
        }
    }
    System.out.println(ans);
}
```



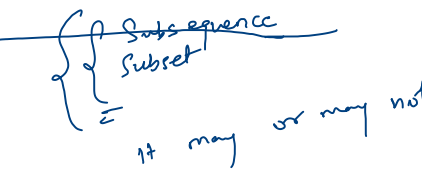
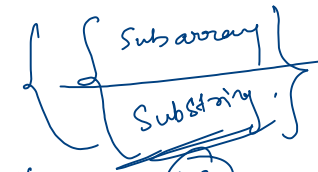
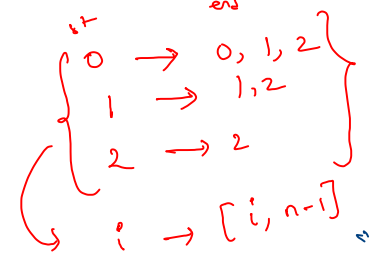
Sample Output



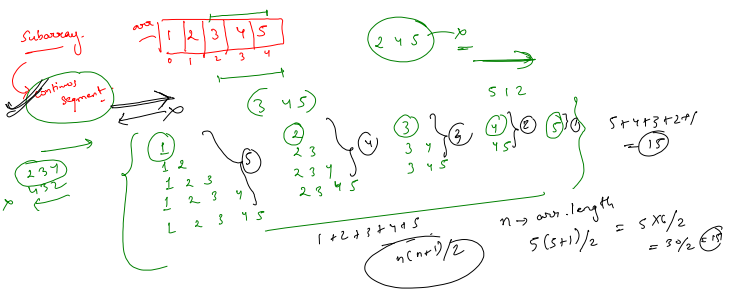
Subarray Problem.



$$= n(n+1)/2 = 5(5+1)/2 = 15$$

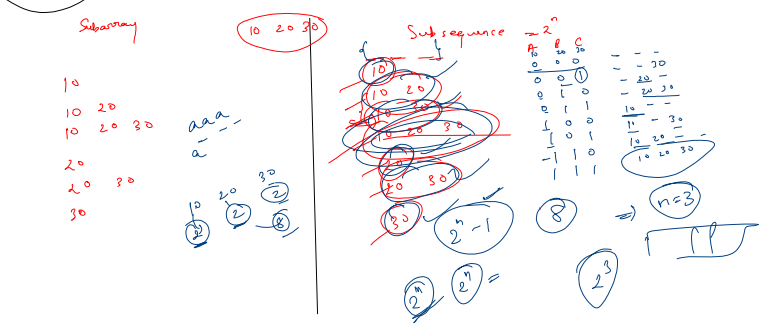


Subarray. \rightarrow contiguous. Subsequence. Sub set. Sub string.

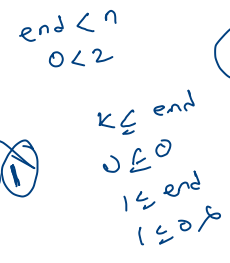
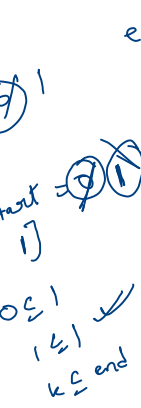
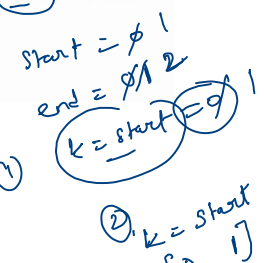
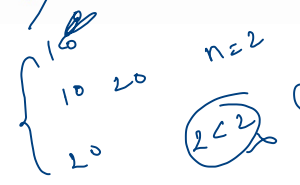


- Subarray.
 - 1 \rightarrow continuous seq. (L \rightarrow R)
 - 2 \rightarrow unidirectional
 - 3 \rightarrow $n(n+1)/2$

- Subsequence.
 - 1 \rightarrow It may or may not be continuous.
 - 2 \rightarrow unidirectional (L \rightarrow R)
 - 3 \rightarrow 2^n



```
for(int start = 0; start < n; start++){
    for(int end = start; end < n; end++){
        for(int k = start; k <= end; k++){
            System.out.print(arr[k] + " ");
        }
        System.out.println();
    }
}
```



$$\frac{2(3)}{2} = 3$$

