

Subarray v/s Subsequence

Subarray

Subarray is a continuous part of the array.

Note: Number of subarrays of an array with n elements = ${}^nC_2 + n = n*(n+1) / 2$.

Example:

1	2	2
(0)	(1)	(2)

Subarrays:

1	1 2	1 2 2	2	2 2	2
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Subsequence

A subsequence is a sequence that can be derived from an array by selecting zero or more elements, without changing the order of the remaining elements.

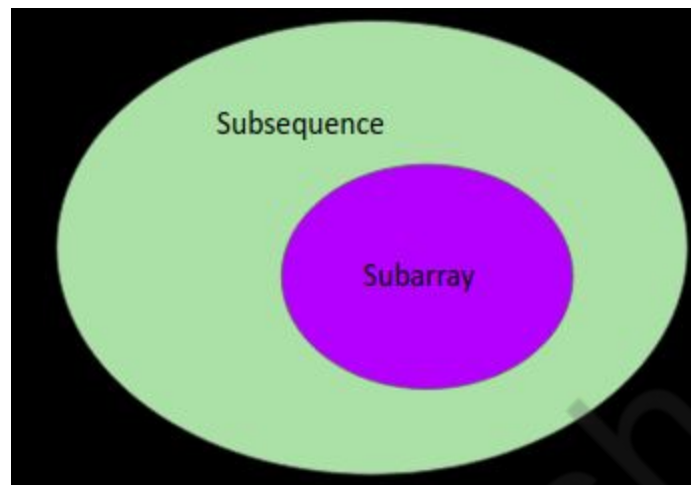
Note: Number of subsequences of an array with n elements = 2^n .

Example:

1	2	2
(0)	(1)	(2)

Subsequences of the above array are: {}, {1}, {2}, {2}, {1,2}, {1,2}, {2,2}, {1,2,2}.

Remember: Every subarray is a subsequence but every subsequence is not a subarray.



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