Dynamic and Static Arrays Static Arrays · fixed length container container n elements indexable from [o, n-1] · Complex ity Static Array Dynamic Array 0(1) 0(1) Access 0 (n) 0(n) Search NJA 0 (11) Insertion NA 0(1) Appending NA  $\circ(u)$ Deletion N/A => it does not make Sense to perform these exercitions Since Static arrays are fixed Dynamic Array · Can grow and Shrink in Size · creating a Dynamic Array: 1. Create a Static array w/ an initial capacity 2. Add elements to the underlying Static array, Keeping track of the number of elements 3. If adding another element will exceed capacity, then create a New Static array W/ twice the capacity & copy the original elements into it