

Real Time Complexity and Assumed Time Complexity of Array

<i>Array Operation</i>	<i>Real Time Complexity</i>	<i>Assumed Time Complexity</i>
<i>Access i – th element</i>	$O(\sqrt{n})$	$O(1)$
<i>Traverse all elements</i>	$O(n + \sqrt{n})$	$O(n)$
<i>Override element at i – th index</i>	$O(\sqrt{n})$	$O(1)$
<i>Insert Element at E</i>	$O(n + \sqrt{n})$	$O(n)$
<i>Delete Element at E</i>	$O(n + \sqrt{n})$	$O(n)$