## Exercise: Array Checkpoint

A.	Why are insertion and deletion at t	e logical end of an arra	ay more efficient than in the interior of an a	array?
----	-------------------------------------	--------------------------	--	--------

B. Fill in the

Time Complexity for the Array Data Structure (n = number of occupied cells)

Operation	Cost as O()
read (anywhere in the array)	
add/remove (at the logical end of the array)	
add/remove (in the interior of the array)	
resize	
find by position	
find by target (element)	

C. What will happen if the following code fragment were to execute?

```
int[] a = new int[50];
a[50] = 13;
```

D. Why would you want to minimize the number of times you have to resize an array?