Sketch a diagram for superarray with number of elements = 4 and capacity = 5. Illustrate what happens when grow() is invoked

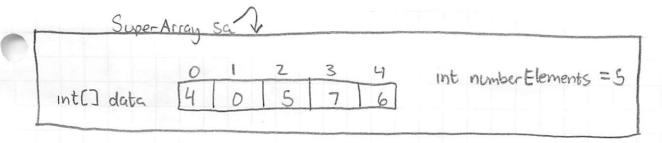
## SuperArray sa

data= [	2	7	9	1 4	3
index	. 0	Backers	2	3	4
}	. nuv	ts of super ober Element ements of capacity =	nts = 4 underlyin		with

Sa. grow() results in

- · creating a new underlying array with capacity 5+5=10
- · copying the value at each index of the original array to the same index of the new array

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data =	2	177	9	4	3	0	0	0	0	6
Index	D	ŧ	2	3	Ч	5	6	7	8	ς
		ser Elemen								



Sa. add (2,9) results in:

does number Elements == data.length? Yes. So, Sa.growl)

0	1	2	3	4	5	6	7	8	9
4	10	5	7	6	0	0	0	0	0
		1	7	71	7				
			_						
Hermedi.	ate ent	ries:	E			4 1	40 1	0.1	
Hamedi.	ate ent	sies:	5	7	16	0	0	0	0

number Elements = 6.