Akari M. Olivares

Search Lab (91-94)

Original array:

Element	-19	1	4	9	18	21	25	26	34	40	50
Index	0	1	2	3	4	5	6	7	8	9	10

I. Target: 4

• Step #1:

-19	1	4	9	18	21	25	26	34	40	50
0	1	2	3	4	5	6	7	8	9	10

Variables	Value
Start	0
End	10
Mid	5
a[mid]	21

• Step #2:

-19	1	1	4		9	18
0	1		2		3	4
Variables		Va	due			

Variables	Value
Start	0
End	4
Mid	2
a[mid]	4

Found 4 at index 2

II. Target: 34

• Step #1:

-19	1	4	9	18	21	25	26	34	40	50
0	1	2	3	4	5	6	7	8	9	10

Variables	Value
Start	0
End	10
Mid	5

a[mid]	21
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• Step #2:

25	26	34	40	50
6	7	8	9	10

Variables	Value
Start	6
End	10
Mid	8
a[mid]	34

Found 34 at index 8

III. Target: 224

• Step #1:

-19	1	4	9	18	21	25	26	34	40	50
0	1	2	3	4	5	6	7	8	9	10

Variables	Value
Start	0
End	10
Mid	5
a[mid]	21

• Step #2:

25	26		34		40	50
6	7		8		9	10
Variables Va		llue				
C44		_				

Variables	Value
Start	6
End	10
Mid	8
a[mid]	34

• Step #3:

40	50		
9 1		0	
Variables		Value	
Start			9
End		10	
Mid	(9	

40

• Step #3:

50	
10	

a[mid]

Variables	Value
Start	10
End	10
Mid	10
a[mid]	50

Target 224 doesn't exist in the array.