

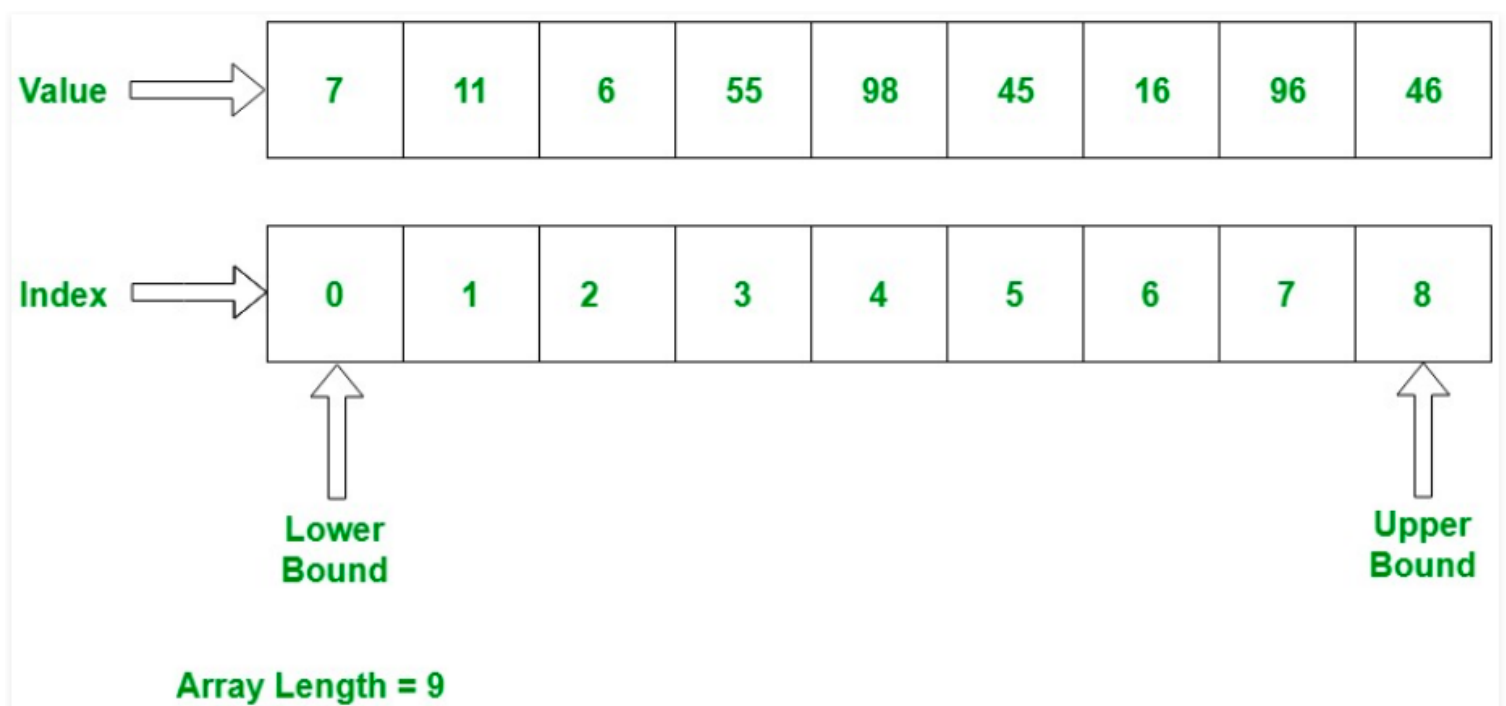


```
int a = 1
```

`{100, 43, 21, 56, 87, 99, 96}` → `array`

`{0, 1, 2, 3, 4, 5, 6}`

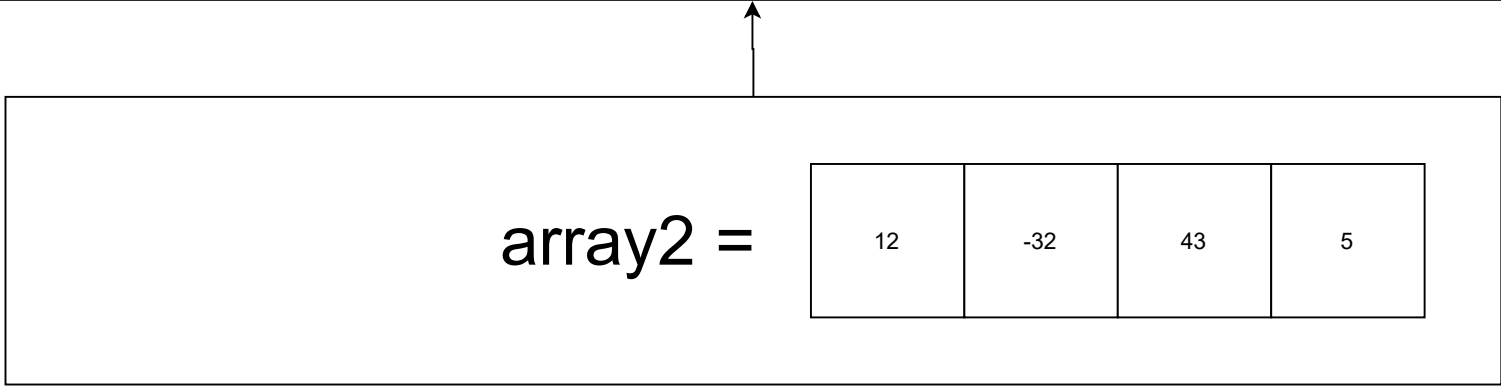
`array's length` → `7`



declaration-initialization

```
int[] array2 = new int[]{12, -32, 43, 5};
```

array2 =

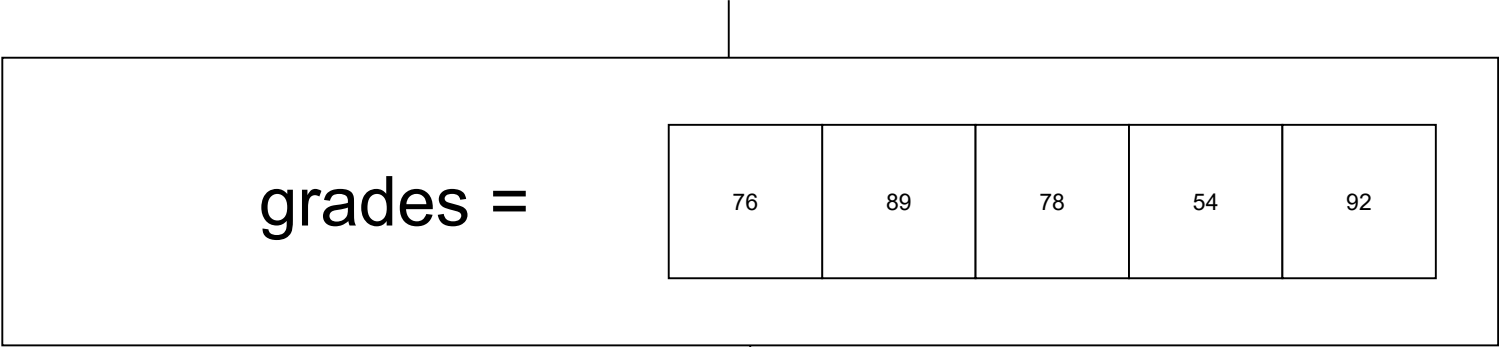


A diagram showing a variable 'array2' pointing to a memory box. The box is divided into four cells containing the values 12, -32, 43, and 5. An arrow points from the box up to the 'new int[]' part of the code above.

12	-32	43	5
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```
int[] grades = new int[5];
```

grades =



A diagram showing a variable 'grades' pointing to a memory box. The box is divided into five cells containing the values 76, 89, 78, 54, and 92. An arrow points from the box down to the 'grades' variable in the code block below.

76	89	78	54	92
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```
int[] grades = new int[5];  
grades[0] = 76;  
grades[3] = 54;  
grades[2] = 78;  
grades[1] = 89;  
grades[4] = 92;  
last_index = length - 1;
```