



NumPy LCM Lowest Common Multiple

[< Previous](#)[Next >](#)

Finding LCM (Lowest Common Multiple)

The Lowest Common Multiple is the smallest number that is a common multiple of two numbers.

Example

Find the LCM of the following two numbers:

```
import numpy as np

num1 = 4
num2 = 6

x = np.lcm(num1, num2)

print(x)
```

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Returns: 12 because that is the lowest common multiple of both numbers ($4*3=12$ and $6*2=12$).

Finding LCM in Arrays

To find the Lowest Common Multiple of all values in an array, you can use the `reduce()` method.

The `reduce()` method will use the ufunc, in this case the `lcm()` function, on each element, and reduce the array by one dimension.

Example

Find the LCM of the values of the following array:

```
import numpy as np

arr = np.array([3, 6, 9])

x = np.lcm.reduce(arr)

print(x)
```

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Returns: 18 because that is the lowest common multiple of all three numbers ($3*6=18$, $6*3=18$ and $9*2=18$).

Example

Find the LCM of all values of an array where the array contains all integers from 1 to 10:

```
import numpy as np

arr = np.arange(1, 11)

x = np.lcm.reduce(arr)

print(x)
```

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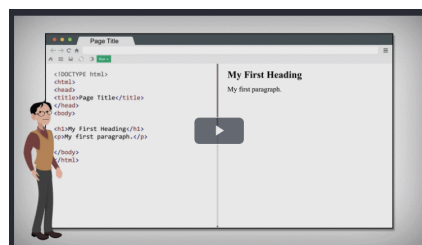
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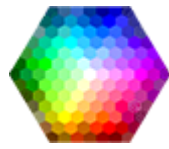
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