



Spyder

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C:\Users\Sachin\untitled26.py

```
1 def sort_array(nums):
2     odd = []
3     even = []
4     for num in nums:
5         if num % 2 == 0:
6             even.append(num)
7         else:
8             odd.append(num)
9     return odd + even
10 nums = [3, 1, 4, 1, 5, 9, 2, 6]
11 print(sort_array(nums))
```

Name	Type	Size	Value
a	int	1	10
arr	list	5	[10, 324, 45, 90, 9900]
b	int	1	20
destination_string	list	13	['H', 'e', 'l', 'l', 'o', ' ', ' ', 'W', 'o', 'r', 'l', 'd', ' ...]
gcd	int	1	10
n	int	1	1000000
n_terms	int	1	10
num	int	1	29
nums	list	8	[3, 1, 4, 1, 5, 9, 2, 6]

Console 1/A X

```
In [1]: runfile('C:/Users/Sachin/untitled26.py', wdir='C:/Users/Sachin')
[3, 1, 1, 5, 9, 4, 2, 6]

In [2]:
```

Python Console History

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C:\Users\Sachin\untitled28.py

```
1 def intersection(nums1, nums2):
2     return list(set(nums1) & set(nums2))
3 nums1 = [1, 2, 2, 1]
4 nums2 = [2, 2]
5 print(intersection(nums1, nums2))
```

Name	Type	Size	Value
a	int	1	10
arr	list	5	[10, 324, 45, 90, 9900]
b	int	1	20
destination_string	list	13	['H', 'e', 'l', 'l', 'o', ' ', 'W', 'o', 'r', 'l', 'd', '!', ...]
gcd	int	1	10
n	int	1	1000000
n_terms	int	1	10
num	int	1	20
nums	list	8	[3, 1, 4, 1, 5, 9, 2, 6]

Help Variable Explorer Plots

Console I/O X

```
In [2]: runfile('C:/Users/Sachin/untitled28.py', wdir='C:/Users/Sachin')
[2]

In [3]:
```

Python Console History

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C:\Users\Sachin\untitled25.py

```
1 def is_perfect(n):
2     if n < 1:
3         return False
4     sum = 0
5     for i in range(1, n):
6         if n % i == 0:
7             sum += i
8     return sum == n
9
10 print(is_perfect(6))
11 print(is_perfect(28))
12 print(is_perfect(12))
```

Name	Type	Size	Value
a	int	1	10
arr	list	5	[10, 324, 45, 90, 9900]
b	int	1	20
destination_string	list	13	['H', 'e', 'l', 'l', 'o', ' ', 'W', 'o', 'r', 'l', 'd', ' ', ...]
gcd	int	1	10
n_terms	int	1	10
num	int	1	29
s	str	13	Hello, World!
source_string	str	13	Hello, World!

Help Variable Explorer Plots

Console I/O X

```
In [21]: runfile('C:/Users/Sachin/untitled25.py', wdir='C:/Users/Sachin')
True
True
False

In [22]:
```

Python Console History

Spyder: Checking for updates ... Internal (Python 3.8.10) ... Completions: Internal ... LSP: Python Line 10, Col 21 UTF-8 CRLF RW Mem 88%

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ENG
IN

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Spyder

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C:\Users\Sachin\untitled27.py

```
1 def intersection_with_frequency(nums1, nums2):
2     result = {}
3     for num in nums1:
4         if num in result:
5             result[num] += 1
6         else:
7             result[num] = 1
8     for num in nums2:
9         if num in result:
10            result[num] = min(result[num], nums2.count(num))
11    return list(result.items())
12 nums1 = [1, 2, 2, 1]
13 nums2 = [2, 2]
14 print(intersection_with_frequency(nums1, nums2))
```

Name	Type	Size	Value
a	int	1	10
arr	list	5	[10, 324, 45, 90, 9800]
b	int	1	20
destination_string	list	13	['H', 'e', 'l', 'l', 'o', ' ', ' ', 'W', 'o', 'r', 'l', 'd', ' ...]
gcd	int	1	10
n	int	1	1000000
n_terms	int	1	10
num	int	1	29
nums	list	8	[3, 1, 4, 1, 5, 9, 2, 6]

Help Variable Explorer Plots

Console 1/A X

```
In [1]: runfile('C:/Users/Sachin/untitled26.py', wdir='C:/Users/Sachin')
[3, 1, 1, 5, 9, 4, 2, 6]

In [2]:
```

Python Console History

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