

# Solution Review: Using Conditions on Arrays

Here we'll discuss the solution to using conditions on arrays.

## WE'LL COVER THE FOLLOWING ^

- Solution
- Explanation

## Solution #

```
import numpy as np

x = np.linspace(0, 2 * np.pi, 20)
y = np.sin(x)

arr1 = y[(y > 0.7) | (y < -0.5)]
arr2 = y[(y > -0.5) & (y < 0.7)]

print(arr1)
print('-----')
print(arr2)
```



## Explanation #

- In line 3, we have created an equally spaced array with 20 values ranging from 0 to  $2\pi$ .
- In line 4, we have used `x` to generate `y` using the `np.sin` function.
- In line 6, we have used the `|` operator to filter for elements that satisfy the condition  $y > 0.7$ ,  $y < -0.5$
- In line 7, we have used the `&` operator to filter for elements that satisfy the condition  $-0.5 < y < 0.7$

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In the next chapter, we will learn about plotting.