

## 1.Indexing Array

Given an array:

`array_1 = [1,2,3,5,4,6,7,8,5,3,2]` What will be the output of the code provided below?

```
print(array_1[:3])
```

Answer:-

**[1, 2, 3]**

## 2. Indexing Array

Given an array:

`array_1 = [1,2,3,5,4,6,7,8,5,3,2]` What will be the output of the code provided below?

```
print(array_1[2:-3])
```

Answer:-

**[3 5 4 6 7 8]**

## 3. Indexing Array

Given an array:

`array_1 = [1,2,3,5,4,6,7,8,5,3,2]` What will be the output of the code provided below? (Hint: The syntax is [starting value : end value : step value])

```
print(array_1[ : : -2])
```

Answer:-

**[2, 5, 7, 4, 3, 1]**

## 4. Indexing Array

How would you extract all the elements with an odd index in a given array? (Hint: Odd index refers to the position of the element, not the actual value)

Answer:-

**array[1: : 2]**m

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## Coding part

### Extracting Elements from Array

In [5]:

```
import ast
input_list=ast.literal_eval(input())
m=int(input())
n=int(input())

import numpy as np
array_1 = np.array(input_list)
final_array = array_1[np.where((array_1>m) & (array_1<n),True,False)]

print(final_array)
```

```
[ 1, 5, 9, 12, 15, 7, 12, 9 ]
```

```
12
```

```
6
```

```
[]
```