Arrays

1.

Max Product of Two Integers

How to find maximum product of two integers in the array where all elements are positive.

Example

```
1    int[] intArray = {10,20,30,40,50};
2    maxProduct(intArray) // (40,50)
```

2.

IsUnique / Contains Duplicate -

Write a program to check if an array is unique or not.

Example

```
1    int[] intArray = {1,2,3,4,5,6};
2    isUnique(intArray) // true
```

3.

Your are given two integer arrays. Write a program to check if they are permutation of each other.

Example

```
1    int[] array1 = {1,2,3,4,5};
2    int[] array2 = {5,1,2,3,4};
3    permutation(array1, array2)
```

Output

```
true
```

Middle Function

Write a function called middle that takes a list and returns a new list that contains all but the first and last elements.

```
1   myArray = [1, 2, 3, 4]
2   middle(myArray)  # [2,3]
```