

JAVA.UTIL.COLLECTIONS.ROTATE METHOD

http://www.tutorialspoint.com/java/util/collections_rotate.htm

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Description

The **rotate**`List < ? >, int` method is used to rotate the elements in the specified list by the specified distance.

Declaration

Following is the declaration for **java.util.Collections.rotate** method.

```
public static void rotate(List<?> list, int distance)
```

Parameters

- **list** -- This is the list to be rotated.
- **distance** -- This is the distance to rotate the list.

Return Value

- **NA**

Exception

- **UnsupportedOperationException** -- This is thrown if the specified list or its list-iterator does not support the set operation.

Example

The following example shows the usage of `java.util.Collections.rotate`

```
package com.tutorialspoint;

import java.util.*;

public class CollectionsDemo {
    public static void main(String[] args) {
        // create array list object
        List numbers = new ArrayList();

        // populate the list
        for (int i = 0; i < 15; i++) {
            numbers.add(i);
        }

        System.out.println("Before : "+Arrays.toString(numbers.toArray()));

        // rotate the list at distance 10
        Collections.rotate(numbers, 10);

        System.out.println("After : "+Arrays.toString(numbers.toArray()));
    }
}
```

Let us compile and run the above program, this will produce the following result.

```
Before : [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14]
After  : [5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 0, 1, 2, 3, 4]
```

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