**Search elements in Vector using index – Java example**

[**JAVA COLLECTIONS**](http://beginnersbook.com/category/java-collections/)

In this tutorial, we will learn four following ways to search elements in Vector using index value.

1) public int indexOf(Object o): It returns the index of first occurrence of Object o in Vector.  
2) public int indexOf(Object o, int startIndex): It returns the index of the first occurrence of the Object o in this vector, searching forwards from startIndex (inclusive).  
3) public int lastIndexOf(Object o): It returns the index of last occurrence of Object o in Vector.  
4) public int lastIndexOf(Object o, int startIndex): It returns the index of the last occurrence of the specified element in this vector, searching backwards from startIndex(inclusive).

**Example**

In this example, we have used all the above mentioned four methods to demonstrate their working.

import java.util.Vector;

public class SearchVector {

public static void main(String[] args) {

// Create a Vector object

Vector<String> vector = new Vector<String>();

//Add elements to Vector

vector.add("Kate");

vector.add("Patt");

vector.add("Kluge");

vector.add("Karon");

vector.add("Patt");

vector.add("Monica");

vector.add("Patt");

//This would return the index of first occurrence

int first\_index = vector.indexOf("Patt");

System.out.println("First Occurrence of Patt at index: "+first\_index);

//This would return the index of last occurrence

int last\_index = vector.lastIndexOf("Patt");

System.out.println("Last Occurrence of Patt at index: "+last\_index);

//This would start search from index 2(inclusive)

int after\_index = vector.indexOf("Patt", 2);

System.out.println("Occurrence after index 2: "+after\_index);

//This would search the element backward starting from index 6(inclusive)

int before\_index = vector.lastIndexOf("Patt", 6);

System.out.println("Occurrence before index 6: "+before\_index);

}

}

**Output:**

First Occurrence of Patt at index: 1

Last Occurrence of Patt at index: 6

Occurrence after index 2: 4

Occurrence before index 6: 6