

# Sequential Search (Linear Search)

```
public class SequentialSearch {  
    // Method to perform the sequential search  
    public static int sequentialSearch(int[] data, int key) {  
        for (int index = 0; index < data.length; index++) {  
            if (data[index] == key) {  
                return index; // Return the index of the element if found  
            }  
        }  
        return -1; // Return -1 if the element is not found  
    }  
  
    public static void main(String[] args) {  
        int[] array = {5, 3, 9, 1, 12}; // Example array  
        int searchKey = 9; // Element to find  
  
        int result = sequentialSearch(array, searchKey);  
        if (result == -1) {  
            System.out.println("Element not found in the array.");  
        } else {  
            System.out.println("Element found at index: " + result);  
        }  
    }  
}
```

## OUTPUT

Element found at index: 2