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//Program to demonstrate Vector Class
package com.tnsif.collection.list;

import java.util.Iterator;
import java.util.Vector;

public class VectorDemo {

    public static void main(String[] args) {
        Vector<String> animals = new Vector<>();
        animals.add("Dog");
        animals.add("Horse");
        animals.add("Cat");

        System.out.println("Initial Vector: " + animals);
        // Using get()
        String element = animals.get(2);
        System.out.println("Element at index 2: " + element);

        // Using iterator()
        Iterator<String> iterate = animals.iterator();
        System.out.print("Vector: ");
        while (iterate.hasNext()) {
            System.out.print(iterate.next());
            System.out.print(", ");
        }
        // Using remove()
        element = animals.remove(1);
        System.out.println("Removed Element: " + element);
        System.out.println("New Vector: " + animals);

        // Using clear()
        animals.clear();
        System.out.println("Vector after clear(): " + animals);
    }
}
```

}