```java
package Version2;

import java.util.ArrayList;

/**
* This version of the vector class has 33% (or so) of it "completed", which hopefully is
* tested and around 33% of the tests will pass!
*/
public class Vector {

    private int N = 0;
    private ArrayList<Double> data;

    //empty
    public Vector() {
        N=0;
        data = new ArrayList<Double>();
    }

    //a vector is created of size - size, with elements initalized to D
    public Vector(int size, double D) {
        N = size;
        data = new ArrayList<Double>();
        for(int i=0; i<size; i++) {
            data.add(D);
        }
    }

    //a vector is created to be initialized to the array D
    public Vector(double [] D) {
        int length = D.length;
        N = length;
        data = new ArrayList<Double>();
        for(int i=0; i<length; i++) {
            data.add(D[i]);
        }
    }

    //the vector is initalized to Int I
    public Vector(int [] I) {
        int length = I.length;
        N = length;
        data = new ArrayList<Double>();
        for(int i=0; i<length; i++) {
            data.add( (double)I[i] );
        }
    }

    public void append(double[] doubleArray) {
        int len = doubleArray.length;
        for(int i=0; i<len; i++) {
            data.add(doubleArray[i]);
        }
    }

    public void append(int[] intArray) {
        int len = intArray.length;
        for(int i=0; i<len; i++) {
            data.add((double)intArray[i]);
        }
    }

    Vector append(Vector V) {
        throw new UnsupportedOperationException();
    }

    Vector append(double aDouble) {
        throw new UnsupportedOperationException();
    }
```

```
70
71      Boolean equal(Vector V) {
72          throw new UnsupportedOperationException();
73      }
74
75      int getLength() {
76          throw new UnsupportedOperationException();
77      }
78
79      double getValue(int i) {
80          throw new UnsupportedOperationException();
81      }
82
83      Vector add(Vector V) {
84          throw new UnsupportedOperationException();
85      }
86
87      Vector add(double aDouble) {
88          throw new UnsupportedOperationException();
89      }
90
91      Vector sub(Vector V) {
92          throw new UnsupportedOperationException();
93      }
94
95      Vector subV(int l, int r) {
96          throw new UnsupportedOperationException();
97      }
98
99      Vector Mult(Vector V) {
100         throw new UnsupportedOperationException();
101     }
102
103     Vector Mult(double aDouble) {
104         throw new UnsupportedOperationException();
105     }
106
107     Vector Normalize() {
108         throw new UnsupportedOperationException();
109     }
110
111     double EuclidianDistance(Vector V){
112         throw new UnsupportedOperationException();
113     }
114 } // end version 2
115
```