package f\_lab2\_linear\_array;

class LinearArray {

private int nCap;

private int Count;

private String vals[];

public LinearArray(int cpcty) {

nCap = cpcty;

vals = new String[nCap];

Count = 0;

}

public int getCount() {

return Count;

}

public boolean isEmpty() {

return ... //complete this statement

}

public boolean isFull() {

return Count == nCap;

}

public String getElement(int p) {

return // complete this statement

}

public void fill\_data(String[] v\_array, int n) {

int k;

nCap = n \* 2;

vals = new String[nCap];

for (k = 0; k < n; k++){

vals[k] = v\_array[k];

}

Count = n;

}

public int search(String v) {

int p;

p = 0;

while(p < Count) {

if (v.equals(// complete this statement

return // complete this statement

else

p++;

}

return -1;

}

public boolean insert(int p, String v) {

int j;

if (isFull())

return false;

j = Count-1;

while(j >= p){

vals[j+1] = // complete this statement

j--;

}

vals[p] = // complete this statement

//increment Count here

return true;

}

public boolean append(String v) {

// very simple code

}

/\*

public String deleteP(int p) {

int j;

String v = vals[p];

for (j=p+1; j < Count; j++) {

vals[j-1] = // complete this statement

}

Count--;

return v;

}\*/

public void printItems() {

int k;

String s ="";

for (k=0; k < Count; k++) {

s += vals[k] + ",";

}

System.out.println(s);

}

}

public class F\_lab2\_linear\_array {

public static void main(String[] args) {

int k,p;

String v;

String values[] = {"Cat", "Pin", "Deer", "Box", "Chair","Boat"};

LinearArray a = new LinearArray(10);

a.fill\_data(values, 4);

a.printItems();

v = "Roof"; p = 1;

if (a.insert(p, v) == true)

System.out.println("Inserted " + v + " at " + p);

a.printItems();

}

}