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package vegetables;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
import java.util.Collections;
public class Main {
public static void main(String[] args) {
              // TODO Auto-generated method stub
              ArrayList<String> vegetable = new ArrayList<String>();
              Scanner scan = new Scanner(System.in);
              String name;
              int amt;
              boolean truee = true;
vegetable.add("Lettuce");
              vegetable.add("Potatoes");
              vegetable.add("Corn");
              vegetable.add("Tomatoes");
              while (truee == true){
              int Min = -1, Max = vegetable.size(), out = 0;
              int Mid = Min + (Max - Min) / 2;
              Collections.sort(vegetable);
              System.out.println(vegetable);
              System.out.println("\n" + "What is the vegetable you are looking up?");
              name = scan.next();
boolean found = false;
              while (found == false) {
                      String mid = vegetable.get(Mid);
                      int compare = name.compareToIgnoreCase(mid);
                      if (out == 20) {
                             System.out.println("Vegetable Not Found");
                             found = true:
                      }
if (compare == 0) {
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System.out.println(name + " is found");
                             out = 1;
                             found = true:
                      } else if (compare < 0) {
                             Max = Mid:
                             Mid = (Min + Max) / 2;
                      } else if (compare > 0) {
                             Min = Mid;
                             Mid = (Min + Max) / 2;
                      }
                      out ++;
              }
if (name.equalsIgnoreCase("potatoes")){
                      System.out.println("How many seeds are you going to plant?");
                      amt = scan.nextInt();
                      System.out.println("To grow " + amt + " potatoes you need " +(amt* 10)
+ " square inches of stonewool. \nNutrients required will need to be resupplied after initial
input of nutrients. \nThe best hydroponic system to use is a water culture system with the
rockwool \non top of the water and a airstone and air pump, pumping air up through the
container. ");
              }
else if (name.equalsIgnoreCase("lettuce")){
                      System.out.println("How many seeds are you going to plant?");
                      amt = scan.nextInt();
                      System.out.println("In order to grow "+ amt+ " seeds, you need to space
them 1 inch apart so about"+(amt*1)+" square inches of space on a panel like polystyrene
panels and grow the lettuce in net pots. \nNutrients required will need to be resupplied after
initial input of nutrients. \nThe best hydroponic system is a N.F.T. system, a Ebb and Flow
technique, or a water culture technique.");
              }
else if (name.equalsIgnoreCase("Corn")){
                      System.out.println("How many seeds are you going to plant?");
                      amt = scan.nextInt();
                      System.out.println("In order to grow " +amt +" seeds, you need to plant
them 1 inch deep in Rock wool or perlite vermiculite. \nNutrients required will need to be
resupplied after initial imput of nutrients and need to be high in nitrogen. \nThe best systems
to use is a Ebb technique, which means put the rock wool on top of the water and after
germination let roots dangle in the water. \nCorn also needs to be pollenated. It occurs
naturally by wind or you can do it by hand. ");
              }
else if (name.equalsIgnoreCase("tomatoes")){
                      System.out.println("How many seeds are you going to plant?");
                      amt = scan.nextInt();
```

```
System.out.println("In order to grow " +amt +" seeds, you need to plant
in net pots that are supported by the panels similar to lettuce. \nNutrients required will need to
be resupplied after initial input of nutrients. \nThe best hydroponic system is either N.F.T.
system, a Ebb and Flow technique or a water culture technique.");
               }
else if (name.equalsIgnoreCase("tomatoes")){
                      System.out.println("How many seeds are you going to plant?");
                      amt = scan.nextInt();
                       System.out.println("In order to grow " +amt +" seeds, you need to plant
in net pots that are supported by the panels similar to lettuce. \nNutrients required will need to
be resupplied after initial input of nutrients. \nThe best hydroponic system is either N.F.T.
system, a Ebb and Flow technique or a water culture technique.");
               }
System.out.println("Is their another vegetable you want to look up? (Yes or No)");
               String answer = scan.next();
               if (answer.equalsIgnoreCase("yes")){
                      truee = true;
               }
               else {
                      truee = false;
               }
               }
               System.out.println("Goodbye");
       }
}
```