package tugasprakw5;

import java.util.\*;

public class TugasPrakW5 {

static int panjang= 10,lebar= 10;

static String[][] map= new String[panjang][lebar];

static void initMap() {

for(int i= 0;i<panjang;i++) {

for(int j= 0;j<lebar;j++) {

map[i][j]= " ";

}

}

}

public static void main(String[] args) {

Scanner input= new Scanner(System.in);

Scanner string= new Scanner(System.in);

String musim[]= new String[2];

musim[0]= "Spring";

musim[1]= "Summer";

int ctricon= 0,ctrmusim= 0,ctrhari= 1,tmenu;

int ctrg= 0,ctrsiramg= 0,ctrsiramt= 0,ctrsiramc= 0;

int ctrsiramp= 0,ctrsiramtom= 0,ctrsiramco= 0,ctrsiramon= 0;

int xplayer= 0,yplayer= 0;

String icon= "V",step;

ArrayList<tanaman> turnip1= new ArrayList<>();

ArrayList<tanaman> potato1= new ArrayList<>();

ArrayList<tanaman> cucumber1= new ArrayList<>();

ArrayList<tanaman> tomato1= new ArrayList<>();

ArrayList<tanaman> corn1= new ArrayList<>();

ArrayList<tanaman> onion1= new ArrayList<>();

ArrayList<tanaman> grass= new ArrayList<>();

initMap();

do{

for(int i= 0;i<panjang;i++) {

System.out.print("|");

for(int j= 0;j<lebar;j++) {

if(j==xplayer && i==yplayer) {

System.out.print(icon);

}else System.out.print(map[i][j]);

System.out.print("|");

}

System.out.println();

}

System.out.println("Musim: "+musim[ctrmusim]);

System.out.println("Hari: "+ctrhari);

System.out.print("Move: ");

step= input.nextLine();

if("w".equals(step)){ //w

icon= "^";

yplayer--;

if(yplayer==-1) {

icon= "V";

yplayer+=1;

}

for(int i= 0;i<grass.size();i++) { //cek grass

if(xplayer==grass.get(i).getXt() && yplayer==grass.get(i).getYt()) {

yplayer+=1;

}

}

}else if("a".equals(step)) { //a

icon= "<";

xplayer--;

if(xplayer==-1) {

icon= ">";

xplayer+=1;

}

for(int i= 0;i<grass.size();i++) { //cek grass

if(xplayer==grass.get(i).getXt() && yplayer==grass.get(i).getYt()) {

xplayer+=1;

}

}

}else if("s".equals(step)) { //s

yplayer++;

icon= "V";

if(yplayer==10) {

icon= "^";

yplayer-=1;

}

for(int i= 0;i<grass.size();i++) { //cek grass

if(xplayer==grass.get(i).getXt() && yplayer==grass.get(i).getYt()) {

yplayer-=1;

}

}

}else if("d".equals(step)) { //d

icon= ">";

xplayer++;

if(xplayer==10) {

icon= "<";

xplayer-=1;

}

for(int i= 0;i<grass.size();i++) { //cek grass

if(xplayer==grass.get(i).getXt() && yplayer==grass.get(i).getYt()) {

xplayer-=1;

}

}

}

else if("t".equals(step) || "T".equals(step)) { //tanam

System.out.println("1. Turnip");

System.out.println("2. Potato");

System.out.println("3. Cucumber");

System.out.println("4. Tomato");

System.out.println("5. Corn");

System.out.println("6. Onion");

System.out.print("Pilih tanaman: ");

tmenu= input.nextInt();

if(tmenu==1) { //turnip

for(int i= 0;i<9;i++) {

turnip1.add(new turnip1());

}

turnip1.get(0).setXt(xplayer-1);

turnip1.get(0).setYt(yplayer-1);

turnip1.get(1).setXt(xplayer);

turnip1.get(1).setYt(yplayer-1);

turnip1.get(2).setXt(xplayer+1);

turnip1.get(2).setYt(yplayer-1);

turnip1.get(3).setXt(xplayer-1);

turnip1.get(3).setYt(yplayer);

turnip1.get(4).setXt(xplayer);

turnip1.get(4).setYt(yplayer);

turnip1.get(5).setXt(xplayer+1);

turnip1.get(5).setYt(yplayer);

turnip1.get(6).setXt(xplayer-1);

turnip1.get(6).setYt(yplayer+1);

turnip1.get(7).setXt(xplayer);

turnip1.get(7).setYt(yplayer+1);

turnip1.get(8).setXt(xplayer+1);

turnip1.get(8).setYt(yplayer+1);

for(int i= yplayer-1;i<=yplayer+1;i++) {

for(int j= xplayer-1;j<=xplayer+1;j++) {

for(int k= 0;k<turnip1.size();k++) {

if(turnip1.get(k).getMusim().equals(musim[ctrmusim])) {

map[i][j]= turnip1.get(k).getSymbol();

}else map[i][j]= turnip1.get(k).getDead();

}

}

}

}else if(tmenu==2) { //potato

for(int i= 0;i<9;i++) {

potato1.add(new potato1());

}

potato1.get(0).setXt(xplayer-1);

potato1.get(0).setYt(yplayer-1);

potato1.get(1).setXt(xplayer);

potato1.get(1).setYt(yplayer-1);

potato1.get(2).setXt(xplayer+1);

potato1.get(2).setYt(yplayer-1);

potato1.get(3).setXt(xplayer-1);

potato1.get(3).setYt(yplayer);

potato1.get(4).setXt(xplayer);

potato1.get(4).setYt(yplayer);

potato1.get(5).setXt(xplayer+1);

potato1.get(5).setYt(yplayer);

potato1.get(6).setXt(xplayer-1);

potato1.get(6).setYt(yplayer+1);

potato1.get(7).setXt(xplayer);

potato1.get(7).setYt(yplayer+1);

potato1.get(8).setXt(xplayer+1);

potato1.get(8).setYt(yplayer+1);

for(int i= yplayer-1;i<=yplayer+1;i++) {

for(int j= xplayer-1;j<=xplayer+1;j++) {

for(int k= 0;k<potato1.size();k++) {

if(potato1.get(k).getMusim().equals(musim[ctrmusim])) {

map[i][j]= potato1.get(k).getSymbol();

}else map[i][j]= potato1.get(k).getDead();

}

}

}

}else if(tmenu==3) { //cucumber

for(int i= 0;i<9;i++) {

cucumber1.add(new cucumber1());

}

cucumber1.get(0).setXt(xplayer-1);

cucumber1.get(0).setYt(yplayer-1);

cucumber1.get(1).setXt(xplayer);

cucumber1.get(1).setYt(yplayer-1);

cucumber1.get(2).setXt(xplayer+1);

cucumber1.get(2).setYt(yplayer-1);

cucumber1.get(3).setXt(xplayer-1);

cucumber1.get(3).setYt(yplayer);

cucumber1.get(4).setXt(xplayer);

cucumber1.get(4).setYt(yplayer);

cucumber1.get(5).setXt(xplayer+1);

cucumber1.get(5).setYt(yplayer);

cucumber1.get(6).setXt(xplayer-1);

cucumber1.get(6).setYt(yplayer+1);

cucumber1.get(7).setXt(xplayer);

cucumber1.get(7).setYt(yplayer+1);

cucumber1.get(8).setXt(xplayer+1);

cucumber1.get(8).setYt(yplayer+1);

for(int i= yplayer-1;i<=yplayer+1;i++) {

for(int j= xplayer-1;j<=xplayer+1;j++) {

for(int k= 0;k<cucumber1.size();k++) {

if(cucumber1.get(k).getMusim().equals(musim[ctrmusim])) {

map[i][j]= cucumber1.get(k).getSymbol();

}else map[i][j]= cucumber1.get(k).getDead();

}

}

}

}else if(tmenu==4) { //tomato

for(int i= 0;i<9;i++) {

tomato1.add(new tomato1());

}

tomato1.get(0).setXt(xplayer-1);

tomato1.get(0).setYt(yplayer-1);

tomato1.get(1).setXt(xplayer);

tomato1.get(1).setYt(yplayer-1);

tomato1.get(2).setXt(xplayer+1);

tomato1.get(2).setYt(yplayer-1);

tomato1.get(3).setXt(xplayer-1);

tomato1.get(3).setYt(yplayer);

tomato1.get(4).setXt(xplayer);

tomato1.get(4).setYt(yplayer);

tomato1.get(5).setXt(xplayer+1);

tomato1.get(5).setYt(yplayer);

tomato1.get(6).setXt(xplayer-1);

tomato1.get(6).setYt(yplayer+1);

tomato1.get(7).setXt(xplayer);

tomato1.get(7).setYt(yplayer+1);

tomato1.get(8).setXt(xplayer+1);

tomato1.get(8).setYt(yplayer+1);

for(int i= yplayer-1;i<=yplayer+1;i++) {

for(int j= xplayer-1;j<=xplayer+1;j++) {

for(int k= 0;k<tomato1.size();k++) {

if(tomato1.get(k).getMusim().equals(musim[ctrmusim])) {

map[i][j]= tomato1.get(k).getSymbol();

}else map[i][j]= tomato1.get(k).getDead();

}

}

}

}else if(tmenu==5) { //corn

for(int i= 0;i<9;i++) {

corn1.add(new corn1());

}

corn1.get(0).setXt(xplayer-1);

corn1.get(0).setYt(yplayer-1);

corn1.get(1).setXt(xplayer);

corn1.get(1).setYt(yplayer-1);

corn1.get(2).setXt(xplayer+1);

corn1.get(2).setYt(yplayer-1);

corn1.get(3).setXt(xplayer-1);

corn1.get(3).setYt(yplayer);

corn1.get(4).setXt(xplayer);

corn1.get(4).setYt(yplayer);

corn1.get(5).setXt(xplayer+1);

corn1.get(5).setYt(yplayer);

corn1.get(6).setXt(xplayer-1);

corn1.get(6).setYt(yplayer+1);

corn1.get(7).setXt(xplayer);

corn1.get(7).setYt(yplayer+1);

corn1.get(8).setXt(xplayer+1);

corn1.get(8).setYt(yplayer+1);

for(int i= yplayer-1;i<=yplayer+1;i++) {

for(int j= xplayer-1;j<=xplayer+1;j++) {

for(int k= 0;k<corn1.size();k++) {

if(corn1.get(k).getMusim().equals(musim[ctrmusim])) {

map[i][j]= corn1.get(k).getSymbol();

}else map[i][j]= corn1.get(k).getDead();

}

}

}

}else if(tmenu==6) { //onion

for(int i= 0;i<9;i++) {

onion1.add(new onion1());

}

onion1.get(0).setXt(xplayer-1);

onion1.get(0).setYt(yplayer-1);

onion1.get(1).setXt(xplayer);

onion1.get(1).setYt(yplayer-1);

onion1.get(2).setXt(xplayer+1);

onion1.get(2).setYt(yplayer-1);

onion1.get(3).setXt(xplayer-1);

onion1.get(3).setYt(yplayer);

onion1.get(4).setXt(xplayer);

onion1.get(4).setYt(yplayer);

onion1.get(5).setXt(xplayer+1);

onion1.get(5).setYt(yplayer);

onion1.get(6).setXt(xplayer-1);

onion1.get(6).setYt(yplayer+1);

onion1.get(7).setXt(xplayer);

onion1.get(7).setYt(yplayer+1);

onion1.get(8).setXt(xplayer+1);

onion1.get(8).setYt(yplayer+1);

for(int i= yplayer-1;i<=yplayer+1;i++) {

for(int j= xplayer-1;j<=xplayer+1;j++) {

for(int k= 0;k<onion1.size();k++) {

if(onion1.get(k).getMusim().equals(musim[ctrmusim])) {

map[i][j]= onion1.get(k).getSymbol();

}else map[i][j]= onion1.get(k).getDead();

}

}

}

}

}else if("si".equals(step) || "Si".equals(step)) { //siram

if(">".equals(icon)) {

if(" ".equals(map[yplayer][xplayer+1])) { //tanah

System.out.println("Tersiram!");

ctrsiramg++;

}else if("t".equals(map[yplayer][xplayer+1])) { //turnip

System.out.println("Tersiram!");

ctrsiramt++;

}else if("p".equals(map[yplayer][xplayer+1])) { //potato

System.out.println("Tersiram!");

ctrsiramp++;

}else if("c".equals(map[yplayer][xplayer+1])) { //cucumber

System.out.println("Tersiram!");

ctrsiramc++;

}else if("m".equals(map[yplayer][xplayer+1])) { //tomato

System.out.println("Tersiram!");

ctrsiramtom++;

}else if("j".equals(map[yplayer][xplayer+1])) { //corn

System.out.println("Tersiram!");

ctrsiramco++;

}else if("o".equals(map[yplayer][xplayer+1])) { //onion

System.out.println("Tersiram!");

ctrsiramon++;

}

}else if("<".equals(icon)) {

if(" ".equals(map[yplayer][xplayer-1])) { //tanah

System.out.println("Tersiram!");

ctrsiramg++;

}else if("t".equals(map[yplayer][xplayer-1])) { //turnip

System.out.println("Tersiram!");

ctrsiramt++;

}else if("p".equals(map[yplayer][xplayer-1])) { //potato

System.out.println("Tersiram!");

ctrsiramp++;

}else if("c".equals(map[yplayer][xplayer-1])) { //cucumber

System.out.println("Tersiram!");

ctrsiramc++;

}else if("m".equals(map[yplayer][xplayer-1])) { //tomato

System.out.println("Tersiram!");

ctrsiramtom++;

}else if("j".equals(map[yplayer][xplayer-1])) { //corn

System.out.println("Tersiram!");

ctrsiramco++;

}else if("o".equals(map[yplayer][xplayer-1])) { //onion

System.out.println("Tersiram!");

ctrsiramon++;

}

}else if("^".equals(icon)) {

if(" ".equals(map[yplayer-1][xplayer])) { //tanah

System.out.println("Tersiram!");

ctrsiramg++;

}else if("t".equals(map[yplayer-1][xplayer])) { //turnip

System.out.println("Tersiram!");

ctrsiramt++;

}else if("p".equals(map[yplayer-1][xplayer])) { //potato

System.out.println("Tersiram!");

ctrsiramp++;

}else if("c".equals(map[yplayer-1][xplayer])) { //cucumber

System.out.println("Tersiram!");

ctrsiramc++;

}else if("m".equals(map[yplayer-1][xplayer])) { //tomato

System.out.println("Tersiram!");

ctrsiramtom++;

}else if("j".equals(map[yplayer-1][xplayer])) { //corn

System.out.println("Tersiram!");

ctrsiramco++;

}else if("o".equals(map[yplayer-1][xplayer])) { //onion

System.out.println("Tersiram!");

ctrsiramon++;

}

}else if("V".equals(icon)) {

if(" ".equals(map[yplayer+1][xplayer])) { //tanah

System.out.println("Tersiram!");

ctrsiramg++;

}else if("t".equals(map[yplayer+1][xplayer])) { //turnip

System.out.println("Tersiram!");

ctrsiramt++;

}else if("p".equals(map[yplayer+1][xplayer])) { //potato

System.out.println("Tersiram!");

ctrsiramp++;

}else if("c".equals(map[yplayer+1][xplayer])) { //cucumber

System.out.println("Tersiram!");

ctrsiramc++;

}else if("m".equals(map[yplayer+1][xplayer])) { //tomato

System.out.println("Tersiram!");

ctrsiramtom++;

}else if("j".equals(map[yplayer+1][xplayer])) { //corn

System.out.println("Tersiram!");

ctrsiramco++;

}else if("o".equals(map[yplayer+1][xplayer])) { //onion

System.out.println("Tersiram!");

ctrsiramon++;

}

}

}else if("g".equals(step) ||"G".equals(step)) { //ganti hari

ctrhari++;

if(ctrhari%25==0) {

ctrmusim++;

if(ctrmusim>=musim.length) {

ctrmusim= 0;

}

}

for(int i= 0;i<turnip1.size();i++) { //turnip

if(!turnip1.get(i).getMusim().equals(musim[ctrmusim])) {

map[turnip1.get(i).getYt()][turnip1.get(i).getXt()]= turnip1.get(i).getDead();

}

}

for(int i= 0;i<potato1.size();i++) { //potato

if(!potato1.get(i).getMusim().equals(musim[ctrmusim])) {

map[potato1.get(i).getYt()][potato1.get(i).getXt()]= potato1.get(i).getDead();

}

}

for(int i= 0;i<cucumber1.size();i++) { //cucumber

if(!cucumber1.get(i).getMusim().equals(musim[ctrmusim])) {

map[cucumber1.get(i).getYt()][cucumber1.get(i).getXt()]= cucumber1.get(i).getDead();

}

}

for(int i= 0;i<tomato1.size();i++) { //tomato

if(!tomato1.get(i).getMusim().equals(musim[ctrmusim])) {

map[tomato1.get(i).getYt()][tomato1.get(i).getXt()]= tomato1.get(i).getDead();

}

}

for(int i= 0;i<corn1.size();i++) { //corn

if(!corn1.get(i).getMusim().equals(musim[ctrmusim])) {

map[corn1.get(i).getYt()][corn1.get(i).getXt()]= corn1.get(i).getDead();

}

}

for(int i= 0;i<onion1.size();i++) { //onion

if(!corn1.get(i).getMusim().equals(musim[ctrmusim])) {

map[onion1.get(i).getYt()][onion1.get(i).getXt()]= onion1.get(i).getDead();

}

}

if(ctrsiramg>=1) { //grow tanah

if(">".equals(icon)) {

grass.add(new grass());

grass.get(ctrg).setXt(xplayer+1);

grass.get(ctrg).setYt(yplayer);

map[yplayer][xplayer+1]= grass.get(ctrg).getSymbol();

ctrg++;

}else if("<".equals(icon)) {

grass.add(new grass());

grass.get(ctrg).setXt(xplayer-1);

grass.get(ctrg).setYt(yplayer);

map[yplayer][xplayer-1]= grass.get(ctrg).getSymbol();

ctrg++;

}else if("^".equals(icon)) {

grass.add(new grass());

grass.get(ctrg).setXt(xplayer);

grass.get(ctrg).setYt(yplayer-1);

map[yplayer-1][xplayer]= grass.get(ctrg).getSymbol();

ctrg++;

}else if("V".equals(icon)) {

grass.add(new grass());

grass.get(ctrg).setXt(xplayer);

grass.get(ctrg).setYt(yplayer+1);

map[yplayer+1][xplayer]= grass.get(ctrg).getSymbol();

ctrg++;

}

ctrsiramg= 0;

}

if(ctrsiramt>=1) { //grow turnip

if(">".equals(icon)) {

turnip1.get(0).setUmur(turnip1.get(0).getUmur()+1);

if(turnip1.get(0).getUmur()>=turnip1.get(0).getGrow()) {

if(turnip1.get(0).getMusim().equals(musim[ctrmusim])) {

turnip1.set(0, new turnip2());

map[yplayer][xplayer+1]= turnip1.get(0).getSymbol();

}else {

map[yplayer][xplayer+1]= turnip1.get(0).getDead();

}

}

}else if("<".equals(icon)) {

turnip1.get(2).setUmur(turnip1.get(2).getUmur()+1);

if(turnip1.get(2).getUmur()>=turnip1.get(2).getGrow()) {

if(turnip1.get(2).getMusim().equals(musim[ctrmusim])) {

turnip1.set(2, new turnip2());

map[yplayer][xplayer-1]= turnip1.get(2).getSymbol();

}else {

map[yplayer][xplayer-1]= turnip1.get(2).getDead();

}

}

}else if("^".equals(icon)) {

turnip1.get(7).setUmur(turnip1.get(7).getUmur()+1);

if(turnip1.get(7).getUmur()>=turnip1.get(7).getGrow()) {

if(turnip1.get(7).getMusim().equals(musim[ctrmusim])) {

turnip1.set(7, new turnip2());

map[yplayer-1][xplayer]= turnip1.get(7).getSymbol();

}else {

map[yplayer-1][xplayer]= turnip1.get(7).getDead();

}

}

}else if("V".equals(icon)) {

turnip1.get(1).setUmur(turnip1.get(1).getUmur()+1);

if(turnip1.get(1).getUmur()>=turnip1.get(1).getGrow()) {

if(turnip1.get(1).getMusim().equals(musim[ctrmusim])) {

turnip1.set(1, new turnip2());

map[yplayer+1][xplayer]= turnip1.get(1).getSymbol();

}else {;

map[yplayer+1][xplayer]= turnip1.get(1).getDead();

}

}

}

}

if(ctrsiramp>=1) { //grow potato

if(">".equals(icon)) {

potato1.get(0).setUmur(potato1.get(0).getUmur()+1);

if(potato1.get(0).getUmur()>=potato1.get(0).getGrow()) {

if(potato1.get(0).getMusim().equals(musim[ctrmusim])) {

potato1.set(0, new potato2());

map[yplayer][xplayer+1]= potato1.get(0).getSymbol();

}else {

map[yplayer][xplayer+1]= potato1.get(0).getDead();

}

}

}else if("<".equals(icon)) {

potato1.get(2).setUmur(potato1.get(2).getUmur()+1);

if(potato1.get(2).getUmur()>=potato1.get(2).getGrow()) {

if(potato1.get(2).getMusim().equals(musim[ctrmusim])) {

potato1.set(2, new potato2());

map[yplayer][xplayer-1]= potato1.get(2).getSymbol();

}else {

map[yplayer][xplayer-1]= potato1.get(2).getDead();

}

}

}else if("^".equals(icon)) {

potato1.get(7).setUmur(potato1.get(7).getUmur()+1);

if(potato1.get(7).getUmur()>=potato1.get(7).getGrow()) {

if(potato1.get(7).getMusim().equals(musim[ctrmusim])) {

potato1.set(7, new potato2());

map[yplayer-1][xplayer]= potato1.get(7).getSymbol();

}else {

map[yplayer-1][xplayer]= potato1.get(7).getDead();

}

}

}else if("V".equals(icon)) {

potato1.get(1).setUmur(potato1.get(1).getUmur()+1);

if(potato1.get(1).getUmur()>=potato1.get(1).getGrow()) {

if(potato1.get(1).getMusim().equals(musim[ctrmusim])) {

potato1.set(1, new potato2());

map[yplayer+1][xplayer]= potato1.get(1).getSymbol();

}else {;

map[yplayer+1][xplayer]= potato1.get(1).getDead();

}

}

}

}

if(ctrsiramc>=1) { //grow cucumber

if(">".equals(icon)) {

cucumber1.get(0).setUmur(cucumber1.get(0).getUmur()+1);

if(cucumber1.get(0).getUmur()>=cucumber1.get(0).getGrow()) {

if(cucumber1.get(0).getMusim().equals(musim[ctrmusim])) {

cucumber1.set(0, new cucumber2());

map[yplayer][xplayer+1]= cucumber1.get(0).getSymbol();

}else {

map[yplayer][xplayer+1]= cucumber1.get(0).getDead();

}

}

}else if("<".equals(icon)) {

cucumber1.get(2).setUmur(cucumber1.get(2).getUmur()+1);

if(cucumber1.get(2).getUmur()>=cucumber1.get(2).getGrow()) {

if(cucumber1.get(2).getMusim().equals(musim[ctrmusim])) {

cucumber1.set(2, new cucumber2());

map[yplayer][xplayer-1]= cucumber1.get(2).getSymbol();

}else {

map[yplayer][xplayer-1]= cucumber1.get(2).getDead();

}

}

}else if("^".equals(icon)) {

cucumber1.get(7).setUmur(cucumber1.get(7).getUmur()+1);

if(cucumber1.get(7).getUmur()>=cucumber1.get(7).getGrow()) {

if(cucumber1.get(7).getMusim().equals(musim[ctrmusim])) {

cucumber1.set(7, new cucumber2());

map[yplayer-1][xplayer]= cucumber1.get(7).getSymbol();

}else {

map[yplayer-1][xplayer]= cucumber1.get(7).getDead();

}

}

}else if("V".equals(icon)) {

cucumber1.get(1).setUmur(cucumber1.get(1).getUmur()+1);

if(cucumber1.get(1).getUmur()>=cucumber1.get(1).getGrow()) {

if(cucumber1.get(1).getMusim().equals(musim[ctrmusim])) {

cucumber1.set(1, new cucumber2());

map[yplayer+1][xplayer]= cucumber1.get(1).getSymbol();

}else {

map[yplayer+1][xplayer]= cucumber1.get(1).getDead();

}

}

}

}

if(ctrsiramtom>=1) { //grow tomato

if(">".equals(icon)) {

tomato1.get(0).setUmur(tomato1.get(0).getUmur()+1);

if(tomato1.get(0).getUmur()>=tomato1.get(0).getGrow()) {

if(tomato1.get(0).getMusim().equals(musim[ctrmusim])) {

tomato1.set(0, new tomato2());

map[yplayer][xplayer+1]= tomato1.get(0).getSymbol();

}else {

map[yplayer][xplayer+1]= tomato1.get(0).getDead();

}

}

}else if("<".equals(icon)) {

tomato1.get(2).setUmur(tomato1.get(2).getUmur()+1);

if(tomato1.get(2).getUmur()>=tomato1.get(2).getGrow()) {

if(tomato1.get(2).getMusim().equals(musim[ctrmusim])) {

tomato1.set(2, new tomato2());

map[yplayer][xplayer-1]= tomato1.get(2).getSymbol();

}else {

map[yplayer][xplayer-1]= tomato1.get(2).getDead();

}

}

}else if("^".equals(icon)) {

tomato1.get(7).setUmur(tomato1.get(7).getUmur()+1);

if(tomato1.get(7).getUmur()>=tomato1.get(7).getGrow()) {

if(tomato1.get(7).getMusim().equals(musim[ctrmusim])) {

tomato1.set(7, new tomato2());

map[yplayer-1][xplayer]= tomato1.get(7).getSymbol();

}else {

map[yplayer-1][xplayer]= tomato1.get(7).getDead();

}

}

}else if("V".equals(icon)) {

tomato1.get(1).setUmur(tomato1.get(1).getUmur()+1);

if(tomato1.get(1).getUmur()>=tomato1.get(1).getGrow()) {

if(tomato1.get(1).getMusim().equals(musim[ctrmusim])) {

tomato1.set(1, new tomato2());

map[yplayer+1][xplayer]= tomato1.get(1).getSymbol();

}else {;

map[yplayer+1][xplayer]= tomato1.get(1).getDead();

}

}

}

}

if(ctrsiramco>=1) { //grow corn

if(">".equals(icon)) {

corn1.get(0).setUmur(corn1.get(0).getUmur()+1);

if(corn1.get(0).getUmur()>=corn1.get(0).getGrow()) {

if(corn1.get(0).getMusim().equals(musim[ctrmusim])) {

corn1.set(0, new corn2());

map[yplayer][xplayer+1]= corn1.get(0).getSymbol();

}else {

map[yplayer][xplayer+1]= corn1.get(0).getDead();

}

}

}else if("<".equals(icon)) {

corn1.get(2).setUmur(corn1.get(2).getUmur()+1);

if(corn1.get(2).getUmur()>=corn1.get(2).getGrow()) {

if(corn1.get(2).getMusim().equals(musim[ctrmusim])) {

corn1.set(2, new corn2());

map[yplayer][xplayer-1]= corn1.get(2).getSymbol();

}else {

map[yplayer][xplayer-1]= corn1.get(2).getDead();

}

}

}else if("^".equals(icon)) {

corn1.get(7).setUmur(corn1.get(7).getUmur()+1);

if(corn1.get(7).getUmur()>=corn1.get(7).getGrow()) {

if(corn1.get(7).getMusim().equals(musim[ctrmusim])) {

corn1.set(7, new corn2());

map[yplayer-1][xplayer]= corn1.get(7).getSymbol();

}else {

map[yplayer-1][xplayer]= corn1.get(7).getDead();

}

}

}else if("V".equals(icon)) {

corn1.get(1).setUmur(corn1.get(1).getUmur()+1);

if(corn1.get(1).getUmur()>=corn1.get(1).getGrow()) {

if(corn1.get(1).getMusim().equals(musim[ctrmusim])) {

corn1.set(1, new corn2());

map[yplayer+1][xplayer]= corn1.get(1).getSymbol();

}else {;

map[yplayer+1][xplayer]= corn1.get(1).getDead();

}

}

}

}

if(ctrsiramon>=1) { //grow onion

if(">".equals(icon)) {

onion1.get(0).setUmur(onion1.get(0).getUmur()+1);

if(onion1.get(0).getUmur()>=onion1.get(0).getGrow()) {

if(onion1.get(0).getMusim().equals(musim[ctrmusim])) {

onion1.set(0, new onion2());

map[yplayer][xplayer+1]= onion1.get(0).getSymbol();

}else {

map[yplayer][xplayer+1]= onion1.get(0).getDead();

}

}

}else if("<".equals(icon)) {

onion1.get(2).setUmur(onion1.get(2).getUmur()+1);

if(onion1.get(2).getUmur()>=onion1.get(2).getGrow()) {

if(onion1.get(2).getMusim().equals(musim[ctrmusim])) {

onion1.set(2, new onion2());

map[yplayer][xplayer-1]= onion1.get(2).getSymbol();

}else {

map[yplayer][xplayer-1]= onion1.get(2).getDead();

}

}

}else if("^".equals(icon)) {

onion1.get(7).setUmur(onion1.get(7).getUmur()+1);

if(onion1.get(7).getUmur()>=onion1.get(7).getGrow()) {

if(onion1.get(7).getMusim().equals(musim[ctrmusim])) {

onion1.set(7, new onion2());

map[yplayer-1][xplayer]= onion1.get(7).getSymbol();

}else {

map[yplayer-1][xplayer]= onion1.get(7).getDead();

}

}

}else if("V".equals(icon)) {

onion1.get(1).setUmur(onion1.get(1).getUmur()+1);

if(onion1.get(1).getUmur()>=onion1.get(1).getGrow()) {

if(onion1.get(1).getMusim().equals(musim[ctrmusim])) {

onion1.set(1, new onion2());

map[yplayer+1][xplayer]= onion1.get(1).getSymbol();

}else {;

map[yplayer+1][xplayer]= onion1.get(1).getDead();

}

}

}

}

}else if("p".equals(step) || "P".equals(step)) { //panen

if(">".equals(icon)) {

if("T".equals(map[yplayer][xplayer+1])) { //turnip

map[yplayer][xplayer+1]= " ";

turnip1.remove(0);

}else if("P".equals(map[yplayer][xplayer+1])) { //potato

map[yplayer][xplayer+1]= " ";

potato1.remove(0);

}else if("C".equals(map[yplayer][xplayer+1])) { //cucumber

cucumber1.set(0, new cucumber1());

map[yplayer][xplayer+1]= cucumber1.get(0).getSymbol();

}else if("M".equals(map[yplayer][xplayer+1])) { //tomato

tomato1.set(0, new tomato1());

map[yplayer][xplayer+1]= tomato1.get(0).getSymbol();

}else if("J".equals(map[yplayer][xplayer+1])) { //corn

corn1.set(0, new corn1());

map[yplayer][xplayer+1]= corn1.get(0).getSymbol();

}else if("O".equals(map[yplayer][xplayer+1])) { //onion

map[yplayer][xplayer+1]= " ";

onion1.remove(0);

}

}else if("<".equals(icon)) {

if("T".equals(map[yplayer][xplayer-1])) { //turnip

map[yplayer][xplayer-1]= " ";

turnip1.remove(2);

}else if("P".equals(map[yplayer][xplayer-1])) { //potato

map[yplayer][xplayer-1]= " ";

potato1.remove(2);

}else if("C".equals(map[yplayer][xplayer-1])) { //cucumber

cucumber1.set(2, new cucumber1());

map[yplayer][xplayer-1]= cucumber1.get(2).getSymbol();

}else if("M".equals(map[yplayer][xplayer-1])) { //tomato

tomato1.set(2, new tomato1());

map[yplayer][xplayer-1]= tomato1.get(2).getSymbol();

}else if("J".equals(map[yplayer][xplayer-1])) { //corn

corn1.set(2, new corn1());

map[yplayer][xplayer-1]= corn1.get(2).getSymbol();

}else if("O".equals(map[yplayer][xplayer-1])) { //onion

map[yplayer][xplayer-1]= " ";

onion1.remove(2);

}

}else if("^".equals(icon)) {

if("T".equals(map[yplayer-1][xplayer])) { //turnip

map[yplayer-1][xplayer]= " ";

turnip1.remove(7);

}else if("P".equals(map[yplayer-1][xplayer])) { //potato

map[yplayer-1][xplayer]= " ";

potato1.remove(7);

}else if("C".equals(map[yplayer-1][xplayer])) { //cucumber

cucumber1.set(7, new cucumber1());

map[yplayer-1][xplayer]= cucumber1.get(7).getSymbol();

}else if("M".equals(map[yplayer-1][xplayer])) { //tomato

tomato1.set(7, new tomato1());

map[yplayer-1][xplayer]= tomato1.get(7).getSymbol();

}else if("J".equals(map[yplayer-1][xplayer])) { //corn

corn1.set(7, new corn1());

map[yplayer-1][xplayer]= cucumber1.get(7).getSymbol();

}else if("O".equals(map[yplayer-1][xplayer])) { //onion

map[yplayer-1][xplayer]= " ";

onion1.remove(7);

}

}else if("V".equals(icon)) {

if("T".equals(map[yplayer+1][xplayer])) { //turnip

map[yplayer+1][xplayer]= " ";

turnip1.remove(1);

}else if("P".equals(map[yplayer+1][xplayer])) { //potato

map[yplayer+1][xplayer]= " ";

potato1.remove(1);

}else if("C".equals(map[yplayer+1][xplayer])) { //cucumber

cucumber1.set(1, new cucumber1());

map[yplayer+1][xplayer]= cucumber1.get(1).getSymbol();

}else if("M".equals(map[yplayer+1][xplayer])) { //tomato

tomato1.set(1, new tomato1());

map[yplayer+1][xplayer]= tomato1.get(1).getSymbol();

}else if("J".equals(map[yplayer+1][xplayer])) { //corn

corn1.set(1, new corn1());

map[yplayer+1][xplayer]= corn1.get(1).getSymbol();

}else if("O".equals(map[yplayer+1][xplayer])) { //onion

map[yplayer+1][xplayer]= " ";

onion1.remove(1);

}

}

}

}while(true);

}

}

package tugasprakw5;

import java.util.\*;

public class tanaman {

private String nama,symbol;

private String musim,dead;

private int grow,regrow;

private int umur;

private int xt,yt;

void setNama(String n) {this.nama= n;}

void setSymbol(String s) {this.symbol= s;}

void setMusim(String m) {this.musim= m;}

void setDead(String d) {this.dead= d;}

void setGrow(int g) {this.grow= g;}

void setRegrow(int rg) {this.regrow= rg;}

void setUmur(int u ) {this.umur= u;}

void setXt(int x) {this.xt= x;}

void setYt(int y) {this.yt= y;}

String getNama() {return this.nama;}

String getSymbol() {return this.symbol;}

String getMusim() {return this.musim;}

String getDead() {return this.dead;}

int getGrow() {return this.grow;}

int getRegrow() {return this.regrow;}

int getUmur() {return this.umur;}

int getXt() {return this.xt;}

int getYt() {return this.yt;}

}

class grass extends tanaman{

grass() {

setSymbol("g");

setXt(0);

setYt(0);

}

}

class turnip1 extends tanaman{

turnip1() {

setSymbol("t");

setDead("x");

setMusim("Spring");

setUmur(1);

setGrow(5);

setXt(0);

setYt(0);

}

}

class turnip2 extends turnip1{

turnip2() {

setSymbol("T");

setDead("x");

setMusim("Spring");

setUmur(1);

setGrow(5);

setXt(0);

setYt(0);

}

}

class potato1 extends tanaman{

potato1() {

setSymbol("p");

setDead("x");

setMusim("Spring");

setUmur(1);

setGrow(8);

setXt(0);

setYt(0);

}

}

class potato2 extends potato1{

potato2() {

setSymbol("P");

setDead("x");

setMusim("Spring");

setUmur(1);

setGrow(8);

setXt(0);

setYt(0);

}

}

class cucumber1 extends tanaman{

cucumber1() {

setSymbol("c");

setDead("x");

setMusim("Spring");

setUmur(1);

setGrow(10);

setRegrow(5);

setXt(0);

setYt(0);

}

}

class cucumber2 extends cucumber1{

cucumber2() {

setSymbol("C");

setDead("x");

setMusim("Spring");

setUmur(1);

setGrow(10);

setRegrow(5);

setXt(0);

setYt(0);

}

}

class tomato1 extends tanaman{

tomato1() {

setSymbol("m");

setDead("x");

setMusim("Summer");

setUmur(1);

setGrow(10);

setRegrow(3);

setXt(0);

setYt(0);

}

}

class tomato2 extends tomato1{

tomato2() {

setSymbol("M");

setDead("x");

setMusim("Summer");

setUmur(1);

setGrow(10);

setRegrow(3);

setXt(0);

setYt(0);

}

}

class corn1 extends tanaman{

corn1() {

setSymbol("j");

setDead("x");

setMusim("Summer");

setUmur(1);

setGrow(15);

setRegrow(4);

setXt(0);

setYt(0);

}

}

class corn2 extends corn1{

corn2() {

setSymbol("J");

setDead("x");

setMusim("Summer");

setUmur(1);

setGrow(15);

setRegrow(4);

setXt(0);

setYt(0);

}

}

class onion1 extends tanaman{

onion1() {

setSymbol("o");

setDead("x");

setMusim("Summer");

setUmur(1);

setGrow(8);

setXt(0);

setYt(0);

}

}

class onion2 extends onion1{

onion2() {

setSymbol("O");

setDead("x");

setMusim("Summer");

setUmur(1);

setGrow(8);

setXt(0);

setYt(0);

}

}