

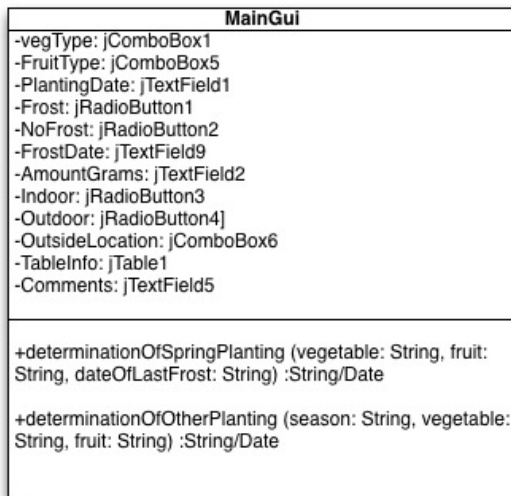
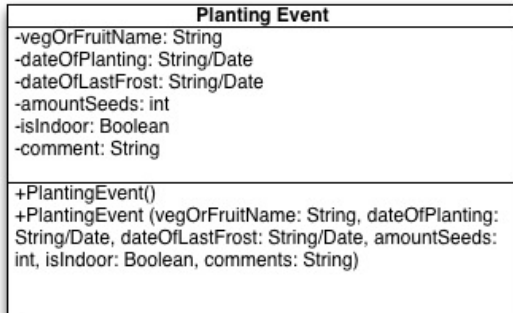
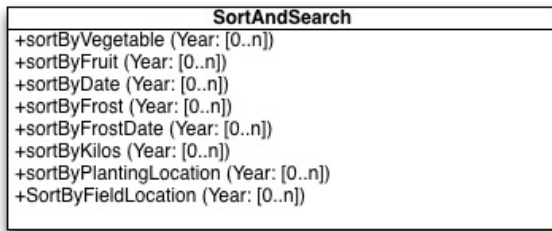
Criterion B – Solution Overview

Input/ Output

Input	Java Data Type	Example
Planted vegetable	String	"Broccoli"
Planted fruit	String	"Strawberries"
Date of planting	String (or Date)	"5/4/2012"
Frost	Boolean	"Yes"
First or last frost date?	Boolean	"First"
Date of Frost	String (or Date)	"25/9/2012"
Amount of seeds planted	Int	"20g"
Location of planting	Boolean	"indoor"
Location of field	String	"large"
Comment	String	"it was perfect weather for my carrots, I managed to harvest so many compared to last year"

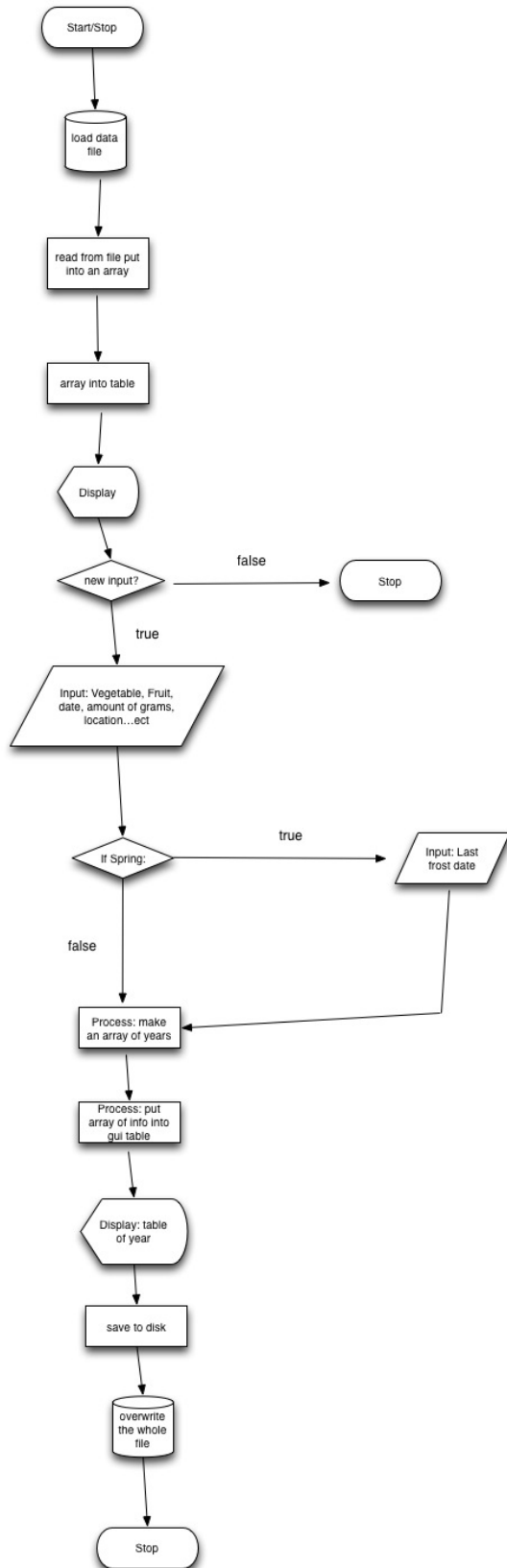
Output	Java Data Type	Example
Planted vegetable	String	"Zucchini"
Planted fruit	String	"Blueberries"
Date of planting	String (or Date)	"1/7/2010"
Frost	Boolean	"Yes"
First or last frost date?	Boolean	"First"
Date of Frost	String (or Date)	"9/6/2008"
Comment	String	"The strawberries were not so good this year, most of them died before I could harvest them"

Class Diagram:

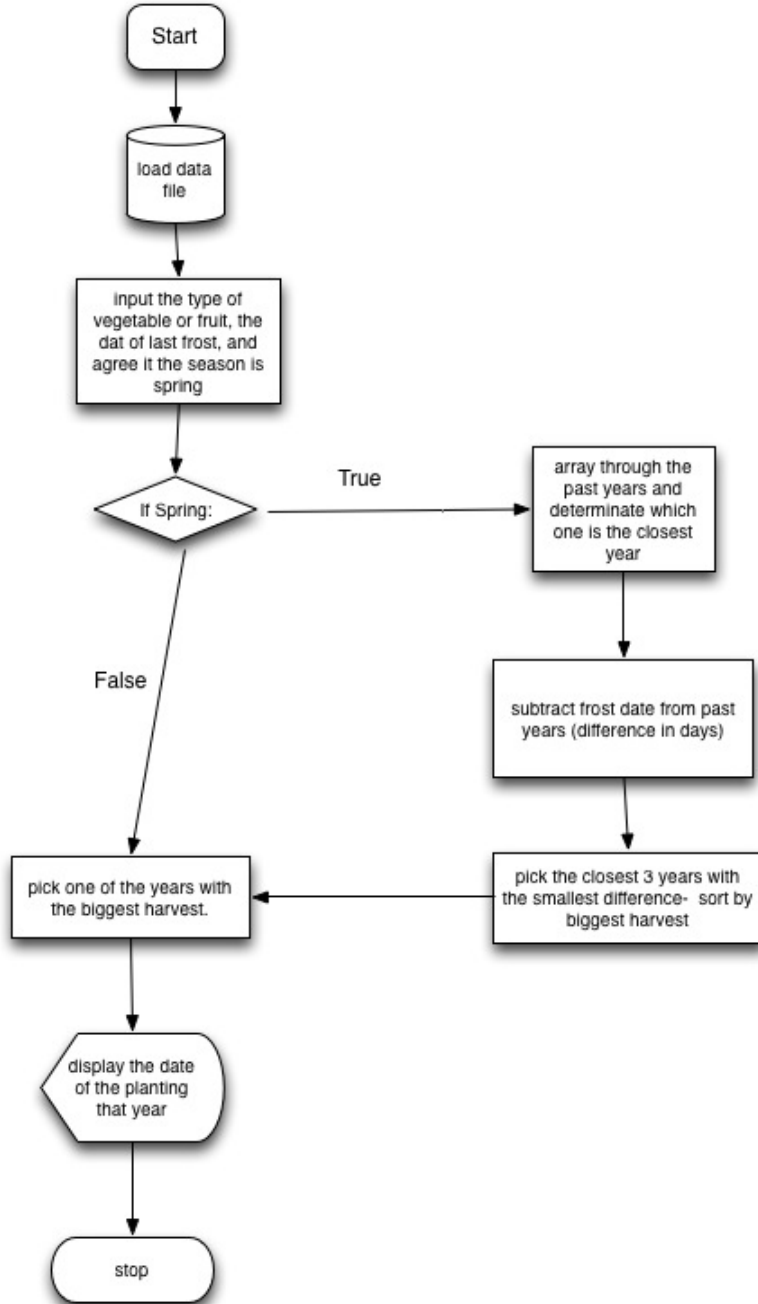


Flow Chart:

Data Input



Determination of Spring and Other Planting



Chronological Development Plan: (put dates next to it)

1. GUI Design
2. Input
 - a) Take in: the user inputs to the GUI (input chart)
 - b) Read: Planted vegetable, Planted fruit, Date of planting, Frost, First or last frost date, Date of Frost, Amount of seeds planted, Location of planting, Location of field, Comment

- c)
3. Display to table
 4. Save
-
5. User friendliness
 6. Calculation: comparing the recent year to the past years
 7. Open
 8. Sort

Testing Plan:

File Edit Help

Spring Other Other Planting Spring Planting

Planted Vegetable

Planted Fruit

Date of planting dd/mm/year

Frost Yes If yes, is it First Last date of frost:
 No

Amount of seeds planted (g) g

Location of planting Indoor Outdoor

Comments:

If location is Indoor: select location in field

Vegetable	Fruit	Date	Frost	Date of Fr...	Amount of...	planting lo...	field locati...

Things done in this Tab:

- Type of vegetable is input
 - a) Normal: Broccoli
 - b) Border: N/A
 - c) Abnormal: 123
 - d) Extreme: A really big String of words

- Type of fruit is input
 - a) Normal: Strawberry
 - b) Border: N/A

- c) Abnormal: 123
 - d) Extreme: A really big String of words
- Date of planting is input
 - a) Normal: 22/12/2012
 - b) Border:
 - c) Abnormal: 12/22/12, abc
 - d) Extreme: A really big String of numbers
- Yes or no is chosen if there is frost
 - a) Normal: if one is pressed
 - b) Border:
 - c) Abnormal: if two are selected, if none of the radio button are selected
 - d) Extreme:
- If yes is chosen, the user will press on 'first' or 'last' frost date
 - a) Normal: if one is pressed
 - b) Border:
 - c) Abnormal: if two are selected, if none of the radio button are selected
 - d) Extreme:
- Date of frost is input
 - a) Normal: 22/12/2012
 - b) Border:
 - c) Abnormal: 12/22/12, abc
 - d) Extreme: A really big String of numbers
- Amount of seeds are measured and recorded
 - a) Normal: 3
 - b) Border: 9.02 (3 sig figs)
 - c) Abnormal: abcd
 - d) Extreme: A really big String of numbers
- Indoor or Outdoor is located depending where the user plants her seeds
 - a) Normal: if one is pressed
 - b) Border:
 - c) Abnormal: if two are selected, if none of the radio button are selected
 - d) Extreme:
- Comments are input
 - a) Normal: harvested a lot of strawberries
 - b) Border:
 - c) Abnormal: no comment- still should be accepted
 - d) Extreme:

- Big field, small field, medium seed are chosen

File Edit Help

Spring Other Other Planting Spring Planting

Planted Vegetable Item 1

Planted Fruit Item 1

Date of planting dd/mm/year

Amount of seeds planted (g) g

Location of planting Indoor Outdoor

If location is Indoor: select location in field Item 1

Vegetable	Fruit	Date	Frost	Date of Fr...	Amount of...	planting lo...	field locati...

The "Other" tab is exactly the same as "Spring" Tab

File Edit Help

Spring | Other | **Other Planting** | Spring Planting

Which season? Winter
 Fall
 Summer

Which vegetable?

Which Fruit?

The best time to plant is:

Things done in this Tab:

- Winter, Fall, Summer is selected
 - a) Normal: if one is pressed
 - b) Border:
 - c) Abnormal: if all or none are selected
 - d) Extreme:

- Type of vegetable is input
 - a) Normal: Broccoli
 - b) Border: N/A
 - c) Abnormal: 123
 - d) Extreme: A really big String of words

- Type of plant is input
 - a) Normal: Strawberry
 - b) Border: N/A
 - c) Abnormal: 123
 - d) Extreme: A really big String of words

- Best time to plant is output

File Edit Help

Spring Other Other Planting Spring Planting

The season is Spring True

Which vegetable?

Which Fruit?

Yes If yes, is it date of last frost:

Frost No

The best time to plant is:

Things done in this Tab:

- Checkbox is checked if statement is true
 - a) Normal: it is selected
 - b) Border:
 - c) Abnormal: nothing is selected
 - d) Extreme:
- Type of vegetable is input
 - a) Normal: Broccoli
 - b) Border: N/A
 - c) Abnormal: 123
 - d) Extreme: A really big String of words
- Type of plant is input
 - a) Normal: Strawberry
 - b) Border: N/A
 - c) Abnormal: 123
 - d) Extreme: A really big String of words
- Yes or no is chosen if there is frost

- a) Normal: if one is pressed
 - b) Border:
 - c) Abnormal: if two are selected, if none of the radio button are selected
 - d) Extreme:
- If yes is chosen, the user will press on 'first' or 'last' frost date
 - a) Normal: if one is pressed
 - b) Border:
 - c) Abnormal: if two are selected, if none of the radio button are selected
 - d) Extreme:
- Date of frost is input
 - a) Normal: 22/12/2012
 - b) Border:
 - c) Abnormal: 12/22/12, abc
 - d) Extreme: A really big String of numbers
- Best time to plant is output