Question 1 Answers

a) It's established when the array is initialized.
b) Firstly, you cannot change the size of the array after it's initialized. Secondly, an array can be of any data type (String, int, double) but it can only hod a single data type. For example, string and int values cannot hold in same array. You can use Lists to store elements of different types.
c) No, the program will not be compiled.

- 1. Error is "Buffer1" is not initialized properly. You need to add a for loop to initialize.
- 2. Error is "Buffer2" is not declared. You need to initialize "Buffer2".

```
MIS 2202
Index 0: Jan
Index 1: Feb
Index 2: Mar
Index 3: Apr
Index 4: May
Index 5: Jun
Index 6: Jul
Index 7: Aug
Index 8: Sep
Index 9: Oct
Index 10: Nov
Index 11: Dec

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Process finished with exit code 0
```

Question 2 Answers

```
Oğuz, Alperen, Selda, Mustafa, Eylül,
First element: Oğuz
Last element: Eylül
Removing first element: Oğuz
Removing last element: Eylül
Alperen, Selda, Mustafa,
First Element: Ali
Size of the list: 3
Is the list empty? false
Sorted list:
Alperen, Mustafa, Selda,

Process finished with exit code 0
```

Question 3 Answers

```
Is tree empty?false
Size: 5
Names in ascending order: [Ahmet, Alperen, Ayşe, Mehmet, Oğuz]
Height: 3
Searching for "Emirhan"... Not found.
Searching for "Emirkan"... Not found.
Searching for "Alperen"... Found!
Removing data item "Alperen"... Removed successfully.
Names in ascending order after removing Alperen: [Ahmet, Ayşe, Mehmet, Oğuz]

Process finished with exit code 0
```