Data Structures Used

Vector: Found in line city.cpp - line 84

```
std::vector<Food> City::getNonZeroFoods()
{
    std::vector<Food> nonZeroFoods;
    for (auto it = foods.begin(); it < foods.end(); ++it)
    {
        if (it->getQuantity() > 0)
        {
            nonZeroFoods.push_back(*it);
        }
    }
    return nonZeroFoods;
}
```

Linked List (Doubly Linked List):

QStringList is equivalent to the std doubly linked list in c++. Found in viewwindow.cpp - line 16

Array:

One of the trip plans is loaded using an Array of QStrings. Found on line 108 of cityselectwindow.cpp

```
void CitySelectWindow::setParisPlan()
    QString parisCities[13] = { "Paris", "Amsterdam", "Berlin", "Brussels", "Budapest", "Hamburg", "Lisbon",
                                "London", "Madrid", "Prague", "Rome", "Stockholm", "Vienna"};
    for (int i = 0; i ≤ (sizeof(parisCities)/sizeof(parisCities[0])); ++i)
        cityNames.push_back(parisCities[i]);
   ui->cityTable->setRowCount(cityNames.size());
                                                            △ implicit conversion changes signedn
   ui->cityTable->setColumnCount(3);
   ui->cityTable->setHorizontalHeaderItem(0, new QTableWidgetItem("Cities to Visit"));
   ui->cityTable->setHorizontalHeaderItem(1, new QTableWidgetItem("11 Cities"));
   ui->cityTable->setHorizontalHeaderItem(2, new QTableWidgetItem("13 Cities"));
   ui->cityTable->setSelectionMode(QAbstractItemView::NoSelection);
    QLabel *name;
    for (int i = 0; i < cityNames.size(); i++)</pre>
                                                        \Delta comparison of integers of different sig
        name = new QLabel();
                                                                       △ implicit conversion changes signedn
        name->setText(cityNames[i]);
       ui->cityTable->setCellWidget(i, 0, name);
   ui->cityTable->setCellWidget(0,1, new QRadioButton());
   ui->cityTable->setCellWidget(0,2, new QRadioButton());
}
```