**Algorithm: TableModel**

Import 🡪 PyQt5 🡪 QtCore

Class 🡨 TableModel (QtCore.QAbstractableModel)

Function 🡨 \_\_init\_\_ (self,header,data):

Super() 🡨 \_init\_()

self.data 🡨 data

self.header 🡨 header

Function 🡨 data (self,index,role):

IF (index not valid)

THEN Return 🡨 QtCore.QVariant()

ELSE IF (role not equals QtCore.Qt.DisplayRole)

THEN return QtCore.QVariant()

END ELSE IF

Return 🡨 self.data[index.rows][index.column]

Function 🡨 rowCount (self,parent=None,\*args,\*\*kwargs):

Return 🡨 length of self.data

Function 🡨 columnCount (self, parent=None,\*args,\*\*kwargs):

Return 🡨 length of self.data[0]

Function 🡨 headerData (self, p\_int, Qt\_Orientation, role=None):

IF (Qt\_Orientation equals QtCore.Qt.Horizontal AND role equals QtCore.Q.DisplayRole):

THEN Return 🡨 QtCore.QVariant (self.header[0][p\_int]

END IF

Return 🡨 QtCore.QVariant()

Function 🡨 setData (self, index, value, role=None):

IF (index not valid)

THEN Return 🡨 False

END IF

self.data[index.row()][index.column()] 🡨 value

self.dataChanged.emit(index, index)

Return 🡨 True