```
import sys
import datetime
from PyQt6 import QtCore, QtGui, QtWidgets
Font_UI = QtGui.QFont("等线", 11)
Font_Table = OtGui.OFont("等线", 12)
SeatListShare = [[0 for i in range(25)], [0 for j in range(25)]]
Flag_Cancel = False
def count_thursdays(start_date):
   start = datetime.datetime.strptime(start_date, "%Y-%m-%d")
   start = start + datetime.timedelta(days=1)
   end = datetime.datetime.today()
   delta = (end - start).days
   thursdays = 0
   for i in range(delta):
      date = start + datetime.timedelta(i)
      if date.weekday() == 3:
         thursdays += 1
   return thursdays
class SeatImageClass:
   SeatList = [[8, 47, 7, 22, 6, 10, 23, 37, 14, 5, 27, 46, 12, 51,
39, 15, 49, 3, 2, 18, 50, 43, 41, 19, 1],
             # 靠左列, 第五组靠后
             [9, 40, 29, 30, 48, 25, 34, 31, 36, 33, 16, 45, 11, 35,
28, 32, 21, 13, 24, 38, 20, 4, 42, 17,
              2611 # 靠右列. 第五组靠前
   SeatListNew = [[0] * 25, [0] * 25]
   NumberToName = ["", "蔡宇轩", "陈锦轩", "陈怡杉", "代宇彤", "丁艺贝", "
丁屹城", "丁梓馨", "冯浚", "高千惠",
                "郭俊雄",
                "韩呈奕", "华婧朵", "晋熙儿", "冷宣澄", "李欣蔓", "李育涵",
"刘瑞琦", "刘雅雯",
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"刘姿雨", "柳子慧", "罗梓涵", "毛家盼", "毛琳悦", "孟雨禾",
"潘志杰", "彭悦", "秦树成", "邱宣博",
                "宋修仪", "宋雅静", "孙浩涵", "汤文博", "汪君瑜", "王淑涵",
"魏晋宇", "魏熠宸",
                "吴博远", "吴谦益", "夏康洋", "向宏博", "熊梓煊", "徐艺轩",
"杨惜婷", "姚熙子正", "易峻熙",
                "詹晨旺",
                "张峻豪", "赵艺涵", "周子君", "熊通", "左恩森"]
   SeatImage = [[-1] * 8, [-1] * 8, [-1] * 8, [-1] * 8, [-1] * 8, [-1]
* 8, [-1] * 8, ]
   StartDate = "2024-03-28"
   def __init__(self):
      self.SeatImage[1][0] = 44
      for i in range(2):
         for j in range(25):
             SeatListShare[i][j] = self.SeatList[i][j]
      self.ListToImage()
   def UpdateSeatListFromShare(self):
      for i in range(2):
         for j in range(25):
             self.SeatList[i][j] = SeatListShare[i][j]
      self.ListToImage()
   def NextWeek(self):
      self.SeatListNew[0][0] = self.SeatList[0][23]
      self.SeatListNew[0][1] = self.SeatList[0][24]
      self.SeatListNew[1][0] = self.SeatList[1][23]
      self.SeatListNew[1][1] = self.SeatList[1][24]
      for i in range(2, 25):
         self.SeatListNew[0][i] = self.SeatList[0][i - 2]
         self.SeatListNew[1][i] = self.SeatList[1][i - 2]
      for i in range(0, 25):
         self.SeatList[0][i] = self.SeatListNew[0][i]
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self.SeatList[1][i] = self.SeatListNew[1][i]
def LastWeek(self):
   self.SeatListNew[0][23] = self.SeatList[0][0]
   self.SeatListNew[0][24] = self.SeatList[0][1]
   self.SeatListNew[1][23] = self.SeatList[1][0]
   self.SeatListNew[1][24] = self.SeatList[1][1]
   for i in range(0, 23):
       self.SeatListNew[0][i] = self.SeatList[0][i + 2]
       self.SeatListNew[1][i] = self.SeatList[1][i + 2]
   for i in range(0, 25):
       self.SeatList[0][i] = self.SeatListNew[0][i]
       self.SeatList[1][i] = self.SeatListNew[1][i]
def ListToImage(self):
   for i in range(1, 7):
       self.SeatImage[6][i] = self.SeatList[1][i - 1]
       self.SeatImage[5][i] = self.SeatList[0][i - 1]
   for i in range(0, 8):
       self.SeatImage[4][i] = self.SeatList[1][i + 6]
       self.SeatImage[3][i] = self.SeatList[0][i + 6]
   for i in range(0, 4):
       self.SeatImage[2][i * 2 + 1] = self.SeatList[0][i + 14]
       self.SeatImage[2][i * 2] = self.SeatList[1][i + 14]
   for i in range(0, 7):
       self.SeatImage[1][i + 1] = self.SeatList[1][i + 18]
       self.SeatImage[0][i + 1] = self.SeatList[0][i + 18]
def PrintImage(self): # for debug
   for i in range(0, 8):
       for j in range(0, 7):
          if self.SeatImage[j][i] == -1:
             print('
                        ', end='')
              continue
          tmp = self.NumberToName[self.SeatImage[j][i]]
          if tmp == '彭悦':
              tmp = '彭 悦'
          if tmp == '熊通':
              tmp = '熊 通'
          if tmp == '冯浚':
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```
tmp = '冯 浚'
              if tmp == '姚熙子正':
                 tmp1 = "\b\b" + tmp
                 tmp = tmp1
              tmp += " "
              print(tmp, end="")
              if i == 1 or i == 4:
                 print("|", end="")
          print("\n", end="")
       print('''
       111)
SeatImage1 = SeatImageClass()
class Ui_Dialog_Set_Seat(object):
   def read_seat_list(self):
       liststr = self.lineEdit_2.text()
       try:
          list1 = eval(liststr)
          if len(list1) != 2:
             raise Exception()
          for i in range(2):
              for j in range(25):
                 if list1[i][j] > 51 or list1[i][j] < 1:</pre>
                     raise Exception()
                 SeatListShare[i][j] = list1[i][j]
          return False
       except:
          return True
   def read_date(self):
       date = self.lineEdit.text()
       try:
          dateclass = datetime.datetime.strptime(date, "%Y-%m-%d")
          datenow = datetime.datetime.now()
          if datenow <= dateclass:</pre>
              raise Exception()
          SeatImage1.StartDate = date
          return False
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except:
          return True
   def update_seat_list(self, Dialog):
      flag = self.read_seat_list()
      flag1 = self.read_date()
      SeatImage1.UpdateSeatListFromShare()
      if flag:
          QtWidgets.QMessageBox.critical(Dialog, "错误", "输入的
SeatList 有误",
QtWidgets.QMessageBox.StandardButton.Ok)
      elif flag1:
          QtWidgets.QMessageBox.critical(Dialog, "错误", "输入的
StartTime 有误",
QtWidgets.QMessageBox.StandardButton.Ok)
      else:
          global Flag_Cancel
          Flag_Cancel = False
          Dialog.close()
   def cancel(self, Dialog):
      global Flag_Cancel
      Flag_Cancel = True
      Dialog.close()
   def setupUi(self, Dialog):
      Dialog.setObjectName("Dialog")
      Dialog.setEnabled(True)
      Dialog.resize(400, 150)
      sizePolicy =
QtWidgets.QSizePolicy(QtWidgets.QSizePolicy.Policy.Minimum,
QtWidgets.QSizePolicy.Policy.Minimum)
      sizePolicy.setHorizontalStretch(0)
      sizePolicy.setVerticalStretch(0)
sizePolicy.setHeightForWidth(Dialog.sizePolicy().hasHeightForWidth())
      Dialog.setSizePolicy(sizePolicy)
      self.gridLayout_2 = QtWidgets.QGridLayout(Dialog)
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self.gridLayout_2.setObjectName("gridLayout_2")
       self.gridLayout = OtWidgets.OGridLayout()
      self.gridLayout.setObjectName("gridLayout")
      self.pushButton_2 = OtWidgets.OPushButton(parent=Dialog)
      self.pushButton_2.setObjectName("pushButton_2")
      self.gridLayout.addWidget(self.pushButton_2, 4, 2, 1, 1)
      self.pushButton = OtWidgets.OPushButton(parent=Dialog)
      self.pushButton.setObjectName("pushButton")
      self.gridLavout.addWidget(self.pushButton, 4, 1, 1, 1)
      spacerItem = QtWidgets.QSpacerItem(40, 20,
OtWidgets.OSizePolicy.Policy.Expanding,
OtWidgets.QSizePolicy.Policy.Minimum)
      self.gridLayout.addItem(spacerItem, 4, 0, 1, 1)
      self.lineEdit = OtWidgets.QLineEdit(parent=Dialog)
      self.lineEdit.setObjectName("lineEdit")
      self.gridLayout.addWidget(self.lineEdit, 3, 0, 1, 3)
      self.label_2 = OtWidgets.OLabel(parent=Dialog)
      self.label_2.setObjectName("label_2")
      self.gridLayout.addWidget(self.label_2, 2, 0, 1, 3)
      self.lineEdit_2 = QtWidgets.QLineEdit(parent=Dialog)
      self.lineEdit_2.setObjectName("lineEdit_2")
      self.gridLayout.addWidget(self.lineEdit_2, 1, 0, 1, 3)
      self.label = QtWidgets.QLabel(parent=Dialog)
      self.label.setObjectName("label")
      self.gridLayout.addWidget(self.label, 0, 0, 1, 3)
      self.gridLayout_2.addLayout(self.gridLayout, 2, 1, 2, 1)
      self.retranslateUi(Dialog)
      QtCore.QMetaObject.connectSlotsByName(Dialog)
   def retranslateUi(self, Dialog):
      _translate = QtCore.QCoreApplication.translate
      Dialog.setWindowTitle(_translate("Dialog", "设置初始座位"))
      self.pushButton_2.setText(_translate("Dialog", "取消"))
      self.pushButton.setText(_translate("Dialog", "确定"))
      self.pushButton.setFocus()
      self.label_2.setText(_translate("Dialog", "输入由开发者提供的
StartTime"))
      self.label.setText(_translate("Dialog", "输入由开发者提供的
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SeatList"))
       self.lineEdit 2.setText(str(SeatListShare))
      self.lineEdit.setText(SeatImage1.StartDate)
      self.pushButton.clicked.connect(lambda:
self.update_seat_list(Dialog))
      self.pushButton_2.clicked.connect(lambda: self.cancel(Dialog))
class Ui Dialog About(object):
   def setupUi(self, Dialog):
      Dialog.setObjectName("Dialog")
      Dialog.resize(535, 395)
      self.gridLayout_2 = QtWidgets.QGridLayout(Dialog)
      self.gridLayout_2.setObjectName("gridLayout_2")
      self.gridLayout = OtWidgets.OGridLayout()
      self.gridLayout.setObjectName("gridLayout")
      self.label_2 = OtWidgets.QLabel(parent=Dialog)
      self.label_2.setObjectName("label_2")
      self.gridLayout.addWidget(self.label_2, 1, 0, 1, 1)
      self.textEdit = QtWidgets.QTextEdit(parent=Dialog)
      self.textEdit.setObjectName("textEdit")
      self.gridLayout.addWidget(self.textEdit, 2, 0, 1, 1)
      self.label = OtWidgets.OLabel(parent=Dialog)
      self.label.setObjectName("label")
      self.gridLayout.addWidget(self.label, 0, 0, 1, 1)
      self.gridLayout_2.addLayout(self.gridLayout, 0, 0, 1, 1)
      self.retranslateUi(Dialog)
      QtCore.QMetaObject.connectSlotsByName(Dialog)
   def retranslateUi(self, Dialog):
      _translate = QtCore.QCoreApplication.translate
      Dialog.resize(400, 300)
      Dialog.setWindowTitle(_translate("Dialog", "关于"))
      self.label_2.setText(_translate("Dialog", "制作本程序使用的软件和工
具: "))
      self.label.setText(_translate("Dialog", "座位计算器 By 乌搏猿
2024.3.31"))
       self.textEdit.setText('''Python 3.12.2
PyCharm Community Edition
```

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PyQt6.QtWidgets
PvOt6.OtCore
PyQt6.QtGUI
OtDesigner6
DateTime
Pyinstaller
UPX''')
      self.textEdit.setReadOnly(True)
class Ui_MainWindow(object):
   week_cnt = 0
   SeatImageItem = [[QtWidgets.QTableWidgetItem for j in range(7)] for
i in range(8)]
   def refresh_table_widget(self):
       self.update_table_widget(True)
       self.update_table_widget(False)
   def next_week(self):
      self.week_cnt += 1
       if self.week_cnt == 0:
          self.label.setText("当前周")
       elif self.week_cnt < 0:</pre>
          self.label.setText(f"{abs(self.week_cnt)}周前")
       else:
          self.label.setText(f"{self.week_cnt}周后")
       print("Next Week Pressed.")
       self.update_table_widget(True)
   def last_week(self):
       self.week_cnt -= 1
       if self.week_cnt == 0:
          self.label.setText("当前周")
       elif self.week_cnt < 0:</pre>
          self.label.setText(f"{abs(self.week_cnt)}周前")
       else:
          self.label.setText(f"{self.week_cnt}周后")
```

```
print("Last Week Pressed.")
       self.update_table_widget(False)
   def update_table_widget(self, flag): # 更新表格, flag=True, 下一周
       self.tableWidget.removeColumn(2)
       self.tableWidget.removeColumn(6)
      if flag:
          SeatImage1.NextWeek()
          SeatImage1.ListToImage()
       else:
          SeatImage1.LastWeek()
          SeatImage1.ListToImage()
       for i in range(8):
          for j in range(7):
             tempitem = QtWidgets.QTableWidgetItem()
             if SeatImage1.SeatImage[j][i] == -1:
                 tempitem.setText('')
             else:
tempitem.setText(SeatImage1.NumberToName[SeatImage1.SeatImage[j][i]])
tempitem.setTextAlignment(QtCore.Qt.AlignmentFlag.AlignCenter)
             tempitem.setFont(Font_Table)
              self.tableWidget.setItem(i, j, tempitem)
       self.tableWidget.insertColumn(2)
       self.tableWidget.insertColumn(6)
   def open_seat_set_dialog(self):
      print("Seat Set Dialog Opened.")
      dialog = QtWidgets.QDialog(parent=Window)
       dialog_ui = Ui_Dialog_Set_Seat()
      dialog_ui.setupUi(dialog)
      dialog.show()
      dialog.exec()
      if Flag_Cancel:
          return
       thurs = count_thursdays(SeatImage1.StartDate)
       self.refresh_table_widget()
       for i in range(thurs):
          self.update_table_widget(True)
      self.label.setText("当前周")
       self.week cnt = 0
```

```
def open_about_dialog(self):
       print("About Dialog Opened.")
       dialog = OtWidgets.QDialog(parent=Window)
      dialog_ui = Ui_Dialog_About()
       dialog_ui.setupUi(dialog)
      dialog.show()
      dialog.exec()
   def setupUi(self, MainWindow):
       MainWindow.setObjectName("MainWindow")
      MainWindow.resize(519, 459)
       self.centralwidget = QtWidgets.QWidget(parent=MainWindow)
       self.centralwidget.setObjectName("centralwidget")
       self.gridLayout_2 = OtWidgets.OGridLayout(self.centralwidget)
       self.gridLayout_2.setObjectName("gridLayout_2")
       self.gridLayout = QtWidgets.QGridLayout()
       self.gridLayout.setHorizontalSpacing(6)
       self.gridLayout.setContentsMargins(-1, 17, -1, -1)
       self.gridLayout.setObjectName("gridLayout")
       spacerItem = QtWidgets.QSpacerItem(40, 20,
OtWidgets. OSizePolicy. Policy. Expanding,
QtWidgets.QSizePolicy.Policy.Minimum)
       self.gridLayout.addItem(spacerItem, 0, 4, 1, 1)
       self.label = OtWidgets.OLabel(parent=self.centralwidget)
       sizePolicv =
OtWidgets.QSizePolicy(OtWidgets.QSizePolicy.Policy.Minimum,
QtWidgets.QSizePolicy.Policy.Minimum)
       sizePolicy.setHorizontalStretch(0)
       sizePolicy.setVerticalStretch(0)
sizePolicy.setHeightForWidth(self.label.sizePolicy().hasHeightForWidth
())
       self.label.setSizePolicy(sizePolicy)
       self.label.setObjectName("label")
       self.gridLayout.addWidget(self.label, 0, 2, 1, 1)
       spacerItem1 = QtWidgets.QSpacerItem(40, 20,
QtWidgets.QSizePolicy.Policy.Expanding,
QtWidgets.QSizePolicy.Policy.Minimum)
       self.gridLayout.addItem(spacerItem1, 0, 0, 1, 1)
       self.pushButton =
OtWidgets.OPushButton(parent=self.centralwidget)
```

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sizePolicy =
OtWidgets.OSizePolicy(OtWidgets.OSizePolicy.Policy.Minimum,
QtWidgets.QSizePolicy.Policy.Fixed)
      sizePolicy.setHorizontalStretch(0)
      sizePolicy.setVerticalStretch(0)
sizePolicy.setHeightForWidth(self.pushButton.sizePolicy().hasHeightFor
Width())
      self.pushButton.setSizePolicv(sizePolicv)
      self.pushButton.setObjectName("pushButton")
      self.gridLayout.addWidget(self.pushButton, 0, 1, 1, 1)
      self.tableWidget =
QtWidgets.QTableWidget(parent=self.centralwidget)
      self.tableWidget.setObjectName("tableWidget")
      self.tableWidget.setColumnCount(0)
      self.tableWidget.setRowCount(0)
      self.gridLayout.addWidget(self.tableWidget, 1, 0, 1, 5)
      self.pushButton_2 =
QtWidgets.QPushButton(parent=self.centralwidget)
       sizePolicy =
QtWidgets.QSizePolicy(QtWidgets.QSizePolicy.Policy.Minimum,
OtWidgets.QSizePolicy.Policy.Fixed)
      sizePolicy.setHorizontalStretch(0)
      sizePolicy.setVerticalStretch(0)
sizePolicy.setHeightForWidth(self.pushButton_2.sizePolicy().hasHeightF
orWidth())
      self.pushButton_2.setSizePolicy(sizePolicy)
      self.pushButton_2.setObjectName("pushButton_2")
      self.gridLayout.addWidget(self.pushButton_2, 0, 3, 1, 1)
      self.gridLayout_2.addLayout(self.gridLayout, 0, 0, 1, 1)
      MainWindow.setCentralWidget(self.centralwidget)
      self.menuBar = QtWidgets.QMenuBar(parent=MainWindow)
      self.menuBar.setGeometry(QtCore.QRect(0, 0, 16777215, 21))
      self.menuBar.setObjectName("menuBar")
      self.set_seat_action = QtGui.QAction("设置初始座位",
self.menuBar)
      self.about_action = QtGui.QAction("关于", self.menuBar)
      self.retranslateUi(MainWindow)
      QtCore.QMetaObject.connectSlotsByName(MainWindow)
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_translate = OtCore.OCoreApplication.translate
      MainWindow.setWindowTitle(_translate("MainWindow", "座位计算器"))
      MainWindow.resize(700, 500)
      self.label.setText(_translate("MainWindow", f"当前周"))
      self.pushButton.setText(_translate("MainWindow", "上一周"))
      self.pushButton_2.setText(_translate("MainWindow", "下一周"))
      self.pushButton.clicked.connect(self.last_week)
      self.pushButton_2.clicked.connect(self.next_week)
      self.menuBar.addAction(self.set_seat_action)
      self.menuBar.addAction(self.about action)
self.set_seat_action.triggered.connect(self.open_seat_set_dialog)
      self.about_action.triggered.connect(self.open_about_dialog)
      self.tableWidget.setRowCount(8)
      self.tableWidget.setColumnCount(9)
self.tableWidget.horizontalHeader().setSectionResizeMode(QtWidgets.QHe
aderView.ResizeMode.Stretch)
self.tableWidget.verticalHeader().setSectionResizeMode(OtWidgets.OHead
erView.ResizeMode.Stretch)
      self.tableWidget.horizontalHeader().setVisible(False)
      self.tableWidget.verticalHeader().setVisible(False)
self.tableWidget.setEditTriggers(OtWidgets.OAbstractItemView.EditTrigg
er.NoEditTriggers)
      self.refresh_table_widget()
if __name__ == "__main__":
   app = QtWidgets.QApplication(sys.argv)
   app.setFont(Font_UI)
   Window = QtWidgets.QMainWindow()
   UI = Ui_MainWindow()
   UI.setupUi(Window)
   Window.show()
   sys.exit(app.exec())
```

def retranslateUi(self, MainWindow):