```
FUNCTION Main

    INITIALIZE TaskList as empty list

    WHILE (True)

        DISPLAY "1. Add Task"

        DISPLAY "2. Edit Task"

        DISPLAY "3. Delete Task"

        DISPLAY "4. Mark Task as Completed"

        DISPLAY "5. View Tasks"

        DISPLAY "6. Sort Tasks"

        DISPLAY "7. Exit"

        INPUT userChoice

        SWITCH userChoice

            CASE 1:

                CALL AddTask

            CASE 2:

                CALL EditTask

            CASE 3:

                CALL DeleteTask

            CASE 4:

                CALL MarkTaskCompleted

            CASE 5:

                CALL ViewTasks

            CASE 6:

                CALL SortTasks

            CASE 7:

                EXIT

            DEFAULT:

                DISPLAY "Invalid choice. Please try again."

        END SWITCH
```

```
    END WHILE

END FUNCTION
```

```
FUNCTION AddTask

    INPUT "Enter task description: " AS description

    INPUT "Enter due date (YYYY-MM-DD): " AS dueDate

    INPUT "Enter priority (1-5): " AS priority

    task = CREATE Task(description, dueDate, priority, False)

    ADD task TO TaskList

    DISPLAY "Task added successfully."

END FUNCTION
```

```
FUNCTION EditTask

    CALL ViewTasks

    INPUT "Enter task number to edit: " AS taskNumber

    IF taskNumber IS valid THEN

        INPUT "Enter new description: " AS description

        INPUT "Enter new due date (YYYY-MM-DD): " AS dueDate

        INPUT "Enter new priority (1-5): " AS priority

        TaskList[taskNumber].description = description

        TaskList[taskNumber].dueDate = dueDate

        TaskList[taskNumber].priority = priority

        DISPLAY "Task updated successfully."

    ELSE

        DISPLAY "Invalid task number."

    END IF

END FUNCTION
```

```
FUNCTION DeleteTask

    CALL ViewTasks

    INPUT "Enter task number to delete: " AS taskNumber

    IF taskNumber IS valid THEN

        REMOVE TaskList[taskNumber]

        DISPLAY "Task deleted successfully."

    ELSE

        DISPLAY "Invalid task number."

    END IF

END FUNCTION
```

```
FUNCTION MarkTaskCompleted

    CALL ViewTasks

    INPUT "Enter task number to mark as completed: " AS taskNumber

    IF taskNumber IS valid THEN

        TaskList[taskNumber].completed = True

        DISPLAY "Task marked as completed."

    ELSE

        DISPLAY "Invalid task number."

    END IF

END FUNCTION
```

```
FUNCTION ViewTasks

    FOR EACH task IN TaskList

        DISPLAY task.number, task.description, task.dueDate, task.priority, task.completed

    END FOR

END FUNCTION
```

```
FUNCTION SortTasks

    DISPLAY "Sort by: "

    DISPLAY "1. Due Date"

    DISPLAY "2. Priority"

    INPUT sortChoice

    SWITCH sortChoice

        CASE 1:

            SORT TaskList BY dueDate

        CASE 2:

            SORT TaskList BY priority

        DEFAULT:

            DISPLAY "Invalid choice."

    END SWITCH

END FUNCTION
```