Programming Project / C++ - Dental Office Appointment System –

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I.   Task Description:

Student 1 is responsible for managing the dental office:

- Adding, deleting, modifying appointments for all patients

- Viewing appointments

Student 2 is responsible for interacting with the dental office:

- Adding, modifying, deleting appointments from a personal appointment list

- Creating an appointment, seeing appointment history

II.   Data Structures Used by the Team

The following classes will be used:

- Appointment: Operation operation, Date date, string patientName
- Date: int year, int month, int hour, int minute, int day
- Operation: string name, double price, int duration

For appointmentHistory an array will be used.

III.   File Structure

The following files will be used:

operations.txt

A file where details about the available dental operations will be stored in the form:

<operation_name1> <price> <duration_in_minutes>

<operation_name2> <price> <duration_in_minutes>

….

appointments.txt

A file where details about scheduled appointments will be stored:

<patient_name1> <operation_name1> <price> <duration_in_minutes> <year> <month> <day> <hour> <minute>

<patient_name2> <operation_name2> <price> <duration_in_minutes> <year> <month> <day> <hour> <minute>

….

IV. Interacting with Executables

Application 1 will offer the following options:

./app_1.exe view_appointments

To view all available appointments for all patients

./app_1.exe add_appointment <patient_name> <operation_name>   <price> <duration_in_minutes> <year> <month> <day> <hour> <minute>

To add an appointment for a patient

./app_1.exe delete_appointment <patient_name> <operation_name>   <price> <duration_in_minutes> <year> <month> <day> <hour> <minute>

To delete an appointment for a patient

./app_1.exe modify_appointment <patient_name> <operation_name> <price> <duration_in_minutes> <year> <month> <day> <hour> <minute>

To modify any detail about an appointment

./app_1.exe view_appointments

To view appointments for all patients

Application 2 will offer the following options:

./app_2.exe view_appointments

To view your appointments

```
./app_2.exe add_appointment <patient_name>
<operation_name>        <price> <duration_in_minutes> <year>
<month> <day> <hour> <minute>
```

To add an appointment for you

```
./app_2.exe delete_appointment <patient_name>
<operation_name>        <price> <duration_in_minutes> <year>
<month> <day> <hour> <minute>
```

To delete an appointment for you

```
./app_2.exe modify_appointment <patient_name>
<operation_name> <price> <duration_in_minutes> <year>
<month> <day> <hour> <minute>
```

To modify any detail about your appointment