Blackwater Annual Concert

Write a program that helps organise the Blackwater Annual Concert.

The main menu allows the user add performers to the concert and eventually it is used to generate a schedule for the concert based on all the information entered and stored in a file performers.txt

Write a program that offers two choices to the user:

1. Add performers to the concert
2. Generate concert details

Here are the details on how each of these options should be implemented:

1.Adding performers

The program allows the user to add a list of performers. For each performer entered they must give:

* their first name and last name
* the type of performance
* the duration in minutes for their performance.

All the performers information is stored in a file called performers.txt. After performers are added a summary of the performers just added is given:

* the number of musicians, singers, and dancers
* the longest act
* the total time required for all performances

**A sample run:**

# Blackwater Annual Music Concert

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# Adding Performers

1. Generate Concert Details
2. Quit

**==> 1**

(1) Adding Performers ---------------------

# How many performers are you adding: 3

Performer 1/3:

Enter your name: **Fred**

Enter your surname: **Walsh**

# Type of Performance

1. Musical
2. Singer
3. Dancer

==>: *1*

Time slot required(mins): **15**

Performer 2/3:

Enter your name: **Harry**

Enter your surname: **Ford**

Type of Performance

1. Musical
2. Singer
3. Dancer

==>:**3**

Time slot required(mins): 25

Booking 3/3:

Enter your name: **Sam**

Enter your surname: **Murphy**

Type of Performance

1. Musician
2. Singer
3. Dancer

==>:**1**

Time slot required(mins)? **20**

The following information has been added.

|  |  |
| --- | --- |
| 1. Walsh,Fred | Musician 15 minutes |
| 2. Ford,Harry | Dancer 25 minutes |
| 3. Murphy,Sam | Musician 20 minutes |

Summary Notes:

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2 Musicians

1. Singers
2. Dancer

Total time required: 1 hour(s) 0 min(s).

The longest act added is Harry Ford(Dancer) 25 minutes.

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1. Adding performers
2. Generate Concert Details
3. Quit

## ==> 1

(1) Adding Performers ---------------------

How many performers are you adding: 1

Booking 1/1:

Enter your name: **Mary**

Enter your surname: **Murphy**

Type of Performance

1. Musical
2. Singer
3. Dance

==>: *3*

Time slot required(mins): **19**

The following information has been added.

1. Murphy, Mary Dancer 19 minutes

Summary Notes:

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0 Musicians

1. Singers
2. Dancer

Total time required: 0 hours, 19 mins

The longest act added is Mary Murphy(Dancer) 19 minutes.

Blackwater Annual Music Concert

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1. Adding performers
2. Generate Concert Details
3. Quit

# **==> 3**

And **performers.txt** becomes

Walsh Fred Musician 15

Ford Harry Dancer 25 Murphy Sam Musician 20

Murphy Mary Dancer 19

2.Generate Concert Details

The program will read performers.txt and display the details of the concert on the screen.

An asterisk should be placed after each performer’s name whose act is longer than 15 minutes.

**Sample Run**

Blackwater Annual Music Concert

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1. Adding performers
2. Generate Concert Schedule 3. Quit ==> **2.**

1: Fred Walsh (Musician) 15 minutes

2: Harry Ford\* (Dancer) 25 minutes

3: Sam Murphy\* (Musician) 20 minutes

4: Mary Murphy\* (Dancer) 19 minutes

Blackwater Annual Music Concert

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1. Adding performers
2. Generate Concert Schedule
3. Quit ==> 3