## Long Distance Calls

A long distance carrier charges the following rates for telephone calls:

|  |  |  |
| --- | --- | --- |
| Starting Time of Call | Domestic Rate per Minute | International Rate per Minute |
| 00:00 – 07:59 | $0.10 | $0.29 |
| 08:00 – 18:59 | $0.75 | $0.99 |
| 19:00 – 23:59 | $0.35 | $0.59 |

## Requirements

Write a C++ program that asks for the starting time, the number of minutes, and the type (domestic or international) of the call, and displays the charges.

The program should ask for the time to be entered as a floating point number in the form HH.MM. For example, 07:00 hours will be entered as 07.00, and 16:28 hours will be entered as 16.28.

## Data Validations

* Only accept times that are between 00:00 and 23:59
* Don’t accept any number whose last two digits are greater than 59
* Ensure that charges are formatted in US currency of $DDD.CC (e.g., $140.48)
* Ensure that times are formatted in HH:MM
* Any additional validations you can think of
* Thoroughly test for all cases!

## Expectations:

* Program must be able to handle any scenarios that the instructor will be testing with. Anything, whether they are valid and/or invalid situations.
* Clearly document any situations where your program is not working when submitting your work. The Instructor will deduct a lessor amount of points to any “known / student-documented bugs,” as oppose to those that are undocumented and not working.
* Don’t forget to properly comment the source code so that the instructor can follow the code and logic.