Q4. Write a C program to calculate the parking fare for customers who park their cars in a parking lot when the following information is given:

a) A character showing the type of vehicle: C for car, B for bus and T for truck  
b) An integer between 0 and 24 showing the hour the vehicle entered the lot  
c) An integer between 0 and 60 showing the minute the vehicle entered the lot  
d) An integer between 0 and 24 showing the hour the vehicle left the lot  
e) An integer between 0 and 60 showing the minute the vehicle left the lot

This is a public lot. To encourage people to park for a short period of time, the management uses two different rates for each type of vehicle, as shown below:

|  |  |  |
| --- | --- | --- |
| Vehicle | FirstRate | SecondRate |
| Car | $0.00/hr first 3 hours | $1.50/hr after 3 hours |
| Truck | $1.00/hr first 2 hours | $2.30/hr after 2 hours |
| Bus | $2.00/hr first 1 hour | $3.70/hr after 1 hour |

**Output format is shown below**

**PARKING LOT CHARGE**

Type of vehicle : Car or Bus or Truck

TIME-IN XX:XX

TIME-OUT XX:XX

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PARKING TIME XX :XX

ROUNDED TOTAL XX

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TOTAL CHARGE $XX.XX