#include *<iostream>*

#include *<iomanip>*

using namespace std;

int main() {

int timeHour; *// Time of travel hour (24 hour format)*

int timeMinute; *// Time of travel minute*

int typeOfDay; *// 0 - weekday, 1 - weekend/holiday*

int numPeople; *// People in vehicle*

char inputColon; *// Used to read time format*

double tollAmount;

cout << "Enter time of travel (HH:MM in 24 hour format): ";

*// Read an integer (hour), colon (char), and integer (minute)*

cin >> timeHour >> inputColon >> timeMinute;

cout << "Enter type of day (0 - weekday, 1 - weekend/holiday): ";

cin >> typeOfDay;

cout << "Enter number of people in vehicle: ";

cin >> numPeople;

if (typeOfDay == 0) { *// Weekday time and rates*

*// Determine toll based on hour of travel*

if (timeHour < 6) { *// Before 6:00 am*

tollAmount = 1.55;

}

else if (timeHour < 10) { *// 6 am to 9:59 am*

tollAmount = 4.65;

}

else if (timeHour < 18) { *// 10 am to 5:59 pm*

tollAmount = 2.35;

}

else { *// 6 pm and after*

tollAmount = 1.55;

}

}

else { *// Weekend/holiday time and rates*

*// Determine toll based on hour of travel*

if (timeHour < 8) { *// Before 8:00 am*

tollAmount = 1.55;

}

else if (timeHour < 12) { *// 8 am to 11:59 am*

tollAmount = 3.05;

}

else if (timeHour < 16) { *// 12 pm to 3:59 pm*

tollAmount = 3.45;

}

else if (timeHour < 19) { *// 4 pm to 6:59 pm*

tollAmount = 3.60;

}

else if (timeHour < 22) { *// 7 pm to 9:59 pm*

tollAmount = 3.05;

}

else { *// 10 pm and after*

tollAmount = 1.55;

}

}

*// Check for carpool rate (3 or more people) and update toll*

if (numPeople >= 3) {

*// If on a weekday between 6:00 am and 9:59 am, toll is half off*

if ((typeOfDay == 0) && (timeHour >= 6) && (timeHour < 10)) {

tollAmount = tollAmount \* 0.5;

}

*// Otherwise, the toll is free*

else {

tollAmount = 0.0;

}

}

*// Output toll using am/pm format*

cout << "Toll at ";

*// Output hour adjusting for am/pm format*

if (timeHour == 0) {

cout << "12:";

}

else if (timeHour <= 12) {

cout << timeHour << ":";

}

else {

cout << timeHour - 12 << ":";

}

*// Output minute with formatting (discussed elsewhere) to*

*// print two digits for minutes.*

cout << setw(2) << setfill('0') << timeMinute;

*// Output am/pm*

if (timeHour < 12) {

cout << " am";

}

else {

cout << " pm";

}

cout << " is " << tollAmount << endl;

return 0;

}

Enter time of travel (HH:MM in 24 hour format): 17:15

Enter type of day (0 - weekday, 1 - weekend/holiday): 0

Enter number of people in vehicle: 3

Toll at 5:15 pm is 0