참조할 만한 사이트

[Taxi Fare in Osaka. Taxi Prices in Osaka. Taxi Price Calculator (numbeo.com)](https://www.numbeo.com/taxi-fare/in/Osaka)

[android - How to run app Flutter background service in closed stated? - Stack Overflow](https://stackoverflow.com/questions/57751890/how-to-run-app-flutter-background-service-in-closed-stated?rq=4)

[Taxi Rate Bangkok - The official 2024 valid Taxi Rate on Taxi-Calculator.com](https://www.taxi-calculator.com/taxi-rate-bangkok/427)

|  |  |  |
| --- | --- | --- |
| City | Pseudo code | Reference |
| Taipai | def calculate\_taxi\_fare(distance\_km, travel\_time\_seconds, start\_time: datetime, is\_cny\_holiday=False):  """  Calculate the taxi fare based on distance, time, and start time of the ride.  :param distance\_km: Distance traveled in kilometers.  :param travel\_time\_seconds: Total travel time in seconds.  :param start\_time: The datetime object representing when the ride started.  :param is\_cny\_holiday: Boolean indicating if the ride occurs during the Chinese New Year holidays.  :return: Total fare in NT$.  """  # Constants  start\_fare = 70  distance\_rate = 5 / 0.25 # NT$ per km after the first 1.25 km  slow\_speed\_rate = 5 / 100 # NT$ per second when speed is under 5 km/h  nighttime\_extra = 20  cny\_extra = 20 # Additional charge during Chinese New Year holidays  cny\_nighttime\_extra = 40 # Additional charge for nighttime during CNY  # Initial fare  fare = start\_fare  # Additional fare for distance beyond the first 1.25 km  if distance\_km > 1.25:  fare += (distance\_km - 1.25) \* distance\_rate  # Additional fare for slow-moving taxi  speed\_km\_per\_hour = (distance\_km / travel\_time\_seconds) \* 3600  if speed\_km\_per\_hour < 5:  fare += slow\_speed\_rate \* travel\_time\_seconds  # Check for nighttime extra charge  if 23 <= start\_time.hour or start\_time.hour < 6:  fare += nighttime\_extra  # Check for Chinese New Year holiday charges  if is\_cny\_holiday:  fare += cny\_extra  if 23 <= start\_time.hour or start\_time.hour < 6:  fare += cny\_nighttime\_extra  return round(fare, 2)  # Example usage  # Distance: 5 km, Time: 600 seconds, Start time: 22:00 (10 PM), Not during CNY holidays  fare\_example = calculate\_taxi\_fare(5, 600, datetime(2024, 3, 14, 22, 0))  fare\_example | [Taipei City Government-All-How are taxi fares calculated?](https://english.gov.taipei/News_Content.aspx?n=A0EDC3930FBE7EFC&sms=5B794C46F3CDE718&s=BB2FB8006C15186B) |
| Tokyo | def calculate\_tokyo\_taxi\_fare(distance\_km, travel\_time\_seconds, start\_time, area='23 wards'):  """  Calculate Tokyo taxi fare based on distance, travel time, and start time of the ride.    :param distance\_km: Distance traveled in kilometers.  :param travel\_time\_seconds: Total travel time in seconds.  :param start\_time: The datetime object representing when the ride started.  :param area: Area of Tokyo ('23 wards' or 'Tama').  :return: Total fare in yen.  """  # Initial fare and distance for additional fare  if area == '23 wards':  initial\_fare\_distance\_km = 1.096  additional\_fare\_distance\_m = 255  time\_based\_fare\_seconds = 95 # 1 min 35 sec  else: # Tama area  initial\_fare\_distance\_km = 1.091  additional\_fare\_distance\_m = 233  time\_based\_fare\_seconds = 85 # 1 min 25 sec  initial\_fare = 500  additional\_fare = 100  time\_based\_fare = 100  late\_night\_premium = 1.2 # 20% increase  long\_distance\_discount\_threshold = 9000  long\_distance\_discount = 0.9 # 10% discount  # Calculate initial and additional fare based on distance  fare = initial\_fare  if distance\_km > initial\_fare\_distance\_km:  additional\_distance\_m = (distance\_km - initial\_fare\_distance\_km) \* 1000  fare += (additional\_distance\_m // additional\_fare\_distance\_m) \* additional\_fare  # Calculate time-based fare for slow speeds  speed\_km\_per\_hour = (distance\_km / travel\_time\_seconds) \* 3600  if speed\_km\_per\_hour < 10:  fare += (travel\_time\_seconds // time\_based\_fare\_seconds) \* time\_based\_fare  # Apply late night premium  if 22 <= start\_time.hour or start\_time.hour < 5:  fare \*= late\_night\_premium  # Apply long-distance discount if applicable  if fare > long\_distance\_discount\_threshold:  fare = (fare - long\_distance\_discount\_threshold) \* long\_distance\_discount + long\_distance\_discount\_threshold  return round(fare)  # Example usage  # Distance: 5 km, Time: 1200 seconds (20 min), Start time: 23:00 (11 PM), Area: '23 wards'  fare\_example = calculate\_tokyo\_taxi\_fare(5, 1200, datetime(2024, 3, 14, 23, 0), '23 wards')  fare\_example | [Rates Table | Tokyo Taxi [Tokyo Hire-Taxi Association(THTA)] (taxi-tokyo.or.jp)](https://www.taxi-tokyo.or.jp/english/call/pricelist.html) |
| Osaka | Function CalculateOsakaTaxiFare(distance, travelTime, taxiSize, startTime):  // Constants  InitialFare = 660  AdditionalDistanceFare = 80  AdditionalDistance = 296 meters  TrafficSpeedThreshold = 10 km/h  TrafficTimeFare = Based on travel time in traffic    // Initial fare for the first 2km  Fare = InitialFare    // Calculate additional fare based on distance beyond the first 2km  If distance > 2 km Then  AdditionalKm = distance - 2  AdditionalFareUnits = AdditionalKm \* 1000 / AdditionalDistance  Fare = Fare + AdditionalFareUnits \* AdditionalDistanceFare  EndIf    // Check for slow traffic conditions  AverageSpeed = distance / (travelTime / 3600) // converting travelTime to hours  If AverageSpeed < TrafficSpeedThreshold Then  // Calculate fare based on time spent in traffic  Fare = Fare + (Calculate traffic time fare)  EndIf    // Adjust fare based on taxi size if necessary  If taxiSize = "medium" or taxiSize = "large" Then  Fare = Fare + (Apply additional charges based on taxi size)  EndIf    // No tipping required, but rounding up to the nearest whole number is common  Fare = RoundUp(Fare)    Return Fare  EndFunction | [Osaka Taxis - Inside Osaka](https://insideosaka.com/osaka-taxis/) |
| Bangkok | Function CalculateBangkokTaxiFare(distanceKm, travelTimeMinutes, taxiType, pickupLocation):  // Constants  InitialFareRegular = 35 THB  InitialFareSUV = 40 THB  FareIncrement = 2 THB  SlowTrafficChargePerMinute = 3 THB  AirportSurcharge = 50 THB  BookingSurcharge = 20 THB    // Fare calculation starts with the initial fare based on taxi type  If taxiType is "Regular" Then  Fare = InitialFareRegular  ElseIf taxiType is "SUV" or "MPV" Then  Fare = InitialFareSUV  Else  // For VIP or special taxis, assume initial fare is higher  Fare = InitialFareSUV + Additional VIP Charge    // Calculate fare based on distance  For each km from 1 to 10 km  If distanceKm > 1 Then  Fare += (Min(distanceKm, 10) - 1) \* 6.50 THB/km    For each km from 10 to 20 km  If distanceKm > 10 Then  Fare += (Min(distanceKm, 20) - 10) \* 7.00 THB/km    // Continue for other distance brackets as per the rules...    // Calculate additional fare for slow traffic  If travelTimeMinutes > (distanceKm / 6) \* 60 Then // If average speed is less than 6 km/h  SlowTrafficMinutes = travelTimeMinutes - (distanceKm / 6) \* 60  Fare += SlowTrafficMinutes \* SlowTrafficChargePerMinute    // Add surcharges for airport pickups or taxi bookings  If pickupLocation is "Airport" Then  Fare += AirportSurcharge  ElseIf Taxi is booked via App or Radio Then  Fare += BookingSurcharge    Return Fare  EndFunction | [Bangkok Taxi Fare - Bangkok Taxi Meter Price per km (thaiest.com)](https://thaiest.com/thailand/bangkok/taxi) |