LABO 1A - SPÉCIFICATION FACTURE DÉTAILLÉE UBER

Entrées

Туре	Name
float	fareKm
int	farDuration
unsigned short int	serviceType

Constantes

YYY, sera remplacer par le type de service (uberX, uberBlack et uberPop).

e.g. UBERX_BASE_FARE, UBERBLACK_BASE_FAR, UBERPOP_BASE_FARE

Туре	Name
float	VAT
float	YYY_BASE_FARE
float	YYY_MINIMUM_FARE
float	YYY_PER_MINUTE_FEE
float	YYY_PER_KM_FEE
float	YYY_CANCELLATION_FEE

Sorties

Туре	Nom	Décimale
float	baseFee	0.05 CHF
float	distanceFee	0.05 CHF
float	durationFee	0.05 CHF
float	cancellationFee	0.05 CHF
float	totalFeeWithoutVat	0.01 CHF
float	totalFee	0.05 CHF

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Pseudo Code

```
(float) VAT = 0.08
(string) UBERX_DISPLAY_NAME = UBERX
(float) UBERX BASE FARE = 3.00
(float) UBERX_MINIMUM_FARE = 6.00
(float) UBERX_PER_MINUTE_FEE = 0.30
(float) UBERX_PER_KM_FEE = 1.80
(float) UBERX_CANCELLATION_FEE = 6.00
(string) UBERBLACK_DISPLAY_NAME = UBERBLACK
(float) UBERBLACK_BASE_FARE = 8.00
(float) UBERBLACK _MINIMUM_FARE = 15.00
(float) UBERBLACK _PER_MINUTE_FEE = 0.60
(float) UBERBLACK _PER_KM_FEE = 3.60
(float) UBERBLACK _CANCELLATION_FEE = 10.00
(string) UBERPOP_DISPLAY_NAME = UBERPOP
(float) UBERPOP_BASE_FARE = 3.00
(float) UBERPOP_MINIMUM_FARE = 6.00
(float) UBERPOP_PER_MINUTE_FEE = 0.30
(float) UBERPOP_PER_KM_FEE = 1.35
(float) UBERPOP_CANCELLATION_FEE = 6.00
(unsigned short int) serviceType = donnee utilisateur
(float) fareKm = donnee utilisateur
(int) fareDurationMinute = donnee utilisateur
(string) displayName
(float) baseFee
(float) minimumFe
(float) perMinuteFee
(float) perKmFee
(float) cancellationFee
SI serviceType EST UBERX
ALORS
     displayName = UBERX_DISPLAY_NAME
     baseFee = UBERX_BASE_FEE
     minimumFee = UBERX_MINIMUM_FEE
     perMinuteFee = UBERX_PER_MINUTE_FEE
     perKmFee = UBERX_PER_KM_FEE
     cancellationFee = UBERX_CANCELLATION_FEE
SINON SI serviceType EST UBERBLACK
ALORS
```

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```
displayName = UBERBLACK_DISPLAY_NAME
     baseFee = UBERBLACK_BASE_FEE
     minimumFee = UBERBLACK_MINIMUM_FEE
     perMinuteFee = UBERBLACK_PER_MINUTE_FEE
     perKmFee = UBERBLACK_PER_KM_FEE
     cancellationFee = UBERBLACK_CANCELLATION_FEE
SINON SI serviceType EST UBERPOP
ALORS
     displayName = UBERPOP_DISPLAY_NAME
     baseFee = UBERPOP_BASE_FEE
     minimumFee = UBERPOP_MINIMUM_FEE
     perMinuteFee = UBERPOP_PER_MINUTE_FEE
     perKmFee = UBERPOP_PER_KM_FEE
     cancellationFee = UBERPOP_CANCELLATION_FEE
FIN
AFFICHER billHeader
SI fareDurationMinute =< 0
ALORS
     CALCULER totalFee = baseFee + cancellationFee
     CALCULER totalFeeWithoutVat = totalFee / (1 + VAT)
     AFFICHER cancellationFee
SINON
     CALCULER totalDistanceFee = fareKm * perKmFee
     CALCULER totalDurationFee = fareDurationMinute * perMinuteFee
     CALCULER totalFee = baseFee + totalDistanceFee +
     totalDurationFee
     SI totalFee < minumumFee
     ALORS
           totalFee = minimumFee
     FIN
     CALCULER totalFeeWithoutVat = totalFee / (1 + VAT)
     AFFICHER baseFee, totalDistanceFee, totalDurationFee
FIN
AFFICHER totalFee, totalFeeWithoutVat
AFFICHER billFooter
```

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