

Assume that you have been asked to write a specialized program for a catering service. Write the program based on the information below. Use output manipulators to align decimals as shown in test data. You only need to copy and paste the bill.

Input

1. Number of adults to be served.
2. Number of children to be served.
3. Cost per adult meal.
4. Cost for a single dessert.
5. Room fee.
6. Tax rate.
7. Deposit.

Calculations

1. Cost for one child's meal: 60% of one adult meal.
2. Total cost for adult meals: cost for one adult meal * number of adults.
3. Total cost for child meals: cost for one child meal * number of children.
4. Total cost for dessert: assume everyone gets a dessert, adults and children.
5. Total food cost: total adult + total child + total dessert.
6. Tax amount: **applied only to the total food cost.**
7. Subtotal: total food + tax amount + room fee.
8. Balance due: subtotal – deposit.

Test Data: Run 1

Number of adults? 23
Number of children? 7
Cost per adult meal? 12.75
Cost for a single dessert? 1.00
Room fee? 45.00
Tax rate? 0.18
Amount of deposit? 50.00

Run 2

Number of adults? 54
Number of children? 3
Cost per adult meal? 13.50
Cost for a single dessert? 1.25
Room fee? 65.00
Tax rate? 0.19
Amount of deposit? 40.00

**** Catering Service ****

Number of adults:	23
Number of children:	7
Cost per adult meal:	\$ 12.75
Cost per child meal:	\$ 7.65
Cost per dessert:	\$ 1.00
Room fee:	\$ 45.00
Tax rate:	\$ 0.18

Total for adult meals:	\$ 293.25
Total for child meals:	\$ 53.55
Total for dessert:	\$ 30.00
Tax amount:	\$ 67.82
Room fee:	\$ 45.00

Subtotal:	\$ 489.62
Less deposit:	\$ 50.00
Balance due:	\$ 439.62

**** Catering Service ****

Number of adults:	54
Number of children:	3
Cost per adult meal:	\$ 13.50
Cost per child meal:	\$ 8.10
Cost per dessert:	\$ 1.25
Room fee:	\$ 65.00
Tax rate:	\$ 0.19

Total for adult meals:	\$ 729.00
Total for child meals:	\$ 24.30
Total for dessert:	\$ 71.25
Tax amount:	\$ 156.66
Room fee:	\$ 65.00

Subtotal:	\$1046.21
Less deposit:	\$ 40.00
Balance due:	\$1006.21

Data to Submit:

Run 1

Number of adults? 45
Number of children? 20
Cost per adult meal? 15.00
Cost for a single dessert? 1.50
Room fee? 50.00
Tax rate? 0.17
Amount of deposit? 100.00

Run 2

Number of adults? 6
Number of children? 30
Cost per adult meal? 9.50
Cost for a single dessert? 0.75
Room fee? 45.00
Tax rate? 0.16
Amount of deposit? 75.00