

Write a 'C' code that calculates a customer's bill for a local cable company. There are two types of customers: residential and business. There are two rates for calculating a cable bill:

1) residential customers and 2) business customers.

For residential customers, the following rates apply:

- Bill processing fee: \$4.50
- Basic service fee: \$20.50
- Premium channels: \$7.50 per channel.

For business customers, the following rates apply:

- Bill processing fee: \$15.00
- Basic service fee: \$75.00 for first 10 connections, \$5.00 for each additional connection
- Premium channels: \$50.00 per channel for any number of connections

The program should read the customer's account number, customer type (Residential or Business), number of premium channels to which the user subscribes, and number of basic service connections. Assume that R or r stands for a residential customer, and B or b stands for a business customer. Finally, your program will display the Customer's account number and the billing amount.

Sample Input/Output:

Enter account number (an integer): 5106

Enter customer type: R or r (Residential), B or b (Business): b

Enter the number of basic service connections: 16

Enter the number of premium channels: 8

Account number: 5106

Amount due: \$520.00