Ⓦ 2.   Write a program that asks the user for a 24-hour time, then displays the time in 12-hour form:

```
Enter a 24-hour time: 21:11
Equivalent 12-hour time: 9:11 PM
```

Be careful not to display 12:00 as 0:00.

3.   Modify the broker.c program of Section 5.2 by making both of the following changes:

   (a) Ask the user to enter the number of shares and the price per share, instead of the value of the trade.

   (b) Add statements that compute the commission charged by a rival broker ($33 plus 3¢ per share for fewer than 2000 shares; $33 plus 2¢ per share for 2000 shares or more). Display the rival's commission as well as the commission charged by the original broker.

Ⓦ 4.   Here's a simplified version of the Beaufort scale, which is used to estimate wind force:

Speed (knots)	Description
Less than 1	Calm
1–3	Light air
4–27	Breeze
28–47	Gale
48–63	Storm
Above 63	Hurricane

Write a program that asks the user to enter a wind speed (in knots), then displays the corresponding description.

5.   In one state, single residents are subject to the following income tax:

Income	Amount of tax	
Not over $750	1% of income	
$750–$2,250	$7.50	plus 2% of amount over $750
$2,250–$3,750	$37.50	plus 3% of amount over $2,250
$3,750–$5,250	$82.50	plus 4% of amount over $3,750
$5,250–$7,000	$142.50	plus 5% of amount over $5,250
Over $7,000	$230.00	plus 6% of amount over $7,000

Write a program that asks the user to enter the amount of taxable income, then displays the tax due.

Ⓦ 6.   Modify the upc.c program of Section 4.1 so that it checks whether a UPC is valid. After the user enters a UPC, the program will display either VALID or NOT VALID.

7.   Write a program that finds the largest and smallest of four integers entered by the user:

```
Enter four integers: 21 43 10 35
Largest: 43
Smallest: 10
```

Use as few if statements as possible. *Hint:* Four if statements are sufficient.

8.   The following table shows the daily flights from one city to another:

Departure time	Arrival time
8:00 a.m.	10:16 a.m.
9:43 a.m.	11:52 a.m.
11:19 a.m.	1:31 p.m.
12:47 p.m.	3:00 p.m.