

6.12 (*Display characters*) Write a method that prints characters using the following header:

```
public static void printChars(char ch1, char ch2, int  
    numberPerLine)
```

This method prints the characters between **ch1** and **ch2** with the specified numbers per line. Write a test program that prints 10 characters per line from **1** to **Z**. Characters are separated by exactly one space.

****6.30** (*Game: craps*) Craps is a popular dice game played in casinos. Write a program to play a variation of the game, as follows:

Roll two dice. Each die has six faces representing values 1, 2, ..., and 6, respectively. Check the sum of the two dice. If the sum is 2, 3, or 12 (called *craps*), you lose; if the sum is 7 or 11 (called *natural*), you win; if the sum is another value (i.e., 4, 5, 6, 8, 9, or 10), a point is established. Continue to roll the dice until either a 7 or the same point value is rolled. If 7 is rolled, you lose. Otherwise, you win.

Your program acts as a single player. Here are some sample runs.



```
You rolled 5 + 6 = 11
You win
```



```
You rolled 1 + 2 = 3
You lose
```



```
You rolled 4 + 4 = 8
point is 8
You rolled 6 + 2 = 8
You win
```



```
You rolled 3 + 2 = 5
point is 5
You rolled 2 + 5 = 7
You lose
```

- **6.32** (*Game: chance of winning at craps*) Revise Programming Exercise 6.30 to run it 10,000 times and display the number of winning games.
- **6.33** (*Current date and time*) Invoking `System.currentTimeMillis()` returns the elapsed time in milliseconds since midnight of January 1, 1970. Write a program that displays the date and time. Here is a sample run:

- **6.34** (*Print calendar*) Programming Exercise 3.21 uses Zeller's congruence to calculate the day of the week. Simplify Listing 6.12, `PrintCalendar.java`, using Zeller's algorithm to get the start day of the month.
- 6.35** (*Geometry: area of a pentagon*) The area of a pentagon can be computed using the following formula: