simulated birth dates are the same. (After sorting, same numbers are adjacent.) We can repeat the process as many times as we like, until we are satisfied that we have a good estimate of the probability. Our estimate of the probability is the number of times we got at least 2 birth dates that are the same, divided by the total number of groups of 25 that were generated. Here are typical results:

20	274	42	93	. . .
↓	↓	↓	↓	. . .
Jan. 20	Oct. 1	Feb. 11	Apr. 3	. . .

There are several ways of obtaining randomly generated numbers from 1 through 365, including the following:

- **A Table of Random Digits:** Refer, for example, to the *CRC Standard Probability and Statistics Tables and Formulae,* which contains a table of 14,000 digits. (In such a table there are many ways to extract numbers from 1 through 365. One way is by referring to the digits in the first three columns and ignoring 000 as well as anything above 365.)
- **STATDISK:** Select **Data** from the main menu bar, then select **Uniform Generator.** Enter a sample size of 25, a minimum of 1, and a maximum of 365; enter 0 for the number of decimal places. The resulting STATDISK display is shown below. Using copy/paste, copy the data set to the **Sample Editor,** where the values can be sorted. (To sort the numbers, click on **Data** and select the **Sort** option.) From the STATDISK display, we see that the 7th and 8th people have the same birth date, which is the 68th day of the year.
- **Minitab:** Select **Calc** from the main menu bar, then select **Random Data,** and next select **Integer.** In the dialog box, enter 25 for the number of rows, store the results in column C1, and enter a minimum of 1 and a maximum of 365. You can then use **Manip** and **Sort** to arrange the data in increasing order. The result will be as shown below, but the numbers won't be the same. This Minitab result shows that the 9th and 10th numbers are the same.

STATDISK

Row	1 Ran...
1	7
2	8
3	16
4	38
5	42
6	46
7	68
8	68
9	104
10	117
11	140
12	195
13	204
14	244
15	271
16	274

MINITAB

↓	C1	C2
1	38	
2	48	
3	59	
4	71	
5	101	
6	107	
7	122	
8	129	
9	153	
10	153	
11	163	