Documentation for Downloadable Files

calculator keys

Converting Matrix Variable Data into List Variable Data

Transferring one of the downloadable TI .83m matrix files to your calculator places new values in your calculator's matrix variable [D]. A matrix variable stores multiple columns, unlike a list variable which stores only a single column. For statistical functions that expect your data to be stored in a single-column list variable, you can extract a single column from matrix variable [D] and place it in one of the list variables in your calculator.

To extract a single column from matrix variable [D], press [**2nd**] [*x* $^{-1}$] [▶] to display the MATH menu and select **8:Matr→list(** and press [**ENTER**]. In response to the **Matr→list(** prompt:

- Press [**2nd**] [*x* $^{-1}$] (to display the NAMES menu) and select **4: [D]** and press [**ENTER**]. (This types the name of matrix variable [D].)

- Press [,] and then press the number key that corresponds to the number of the single column you want to extract. For example, if matrix variable [D] was storing the data of the **Auto** data file, you would press [**2**] to extract the horsepower data column.

- Press [,] [**2nd**] and then press the number key that corresponds to the list variable that you want to store the extracted data. For example, you would press [**2**] if you wanted to store the extracted data in list variable L2.

- Press [**Enter**].

You can also use the **Matrix-to-list** function to extract all of the columns of the matrix variable into a series of list variables in one operation. For example, if matrix variable [D] was storing the data of the **Auto** data file, you could extract the three data columns and place them in list variables L1, L2, and L3 by doing the following:

- Press [**2nd**] [*x* $^{-1}$] [▶] to display the MATH menu and select **8:Matr→list(** and press [**ENTER**]. (This displays the **Matr→list(** prompt.)

- Press [**2nd**] [x^{-1}] (to display the NAMES menu) and select **4:** [**D**] and press [**ENTER**].

- Press [,] [**2nd**] [**1**] [,] [**2nd**] [**2**] [,] [**2nd**] [**3**]. (This types the list ,L1,L2,L3)

- Press [**Enter**].