Lists

Data are stored in lists, which you can create and edit using the stat list editor. You can view up to 20 lists in the stat list editor. There are six default lists: L1 through L6.

Displaying the Stat List Editor

1. Press STAT.

2. Select 1:Edit...

Entering Data into a List

Enter the values 5, 9, 2, 6, 1 into List 1.

1. Display the stat list editor.

2. To enter data into list L1, type 5, press ENTER; type 9, press ENTER; continue until the entire data set is entered.

3. After all data values are entered, press STAT to get back to the EDIT menu or 2nd MODE (for QUIT) to return to the Home Screen.
Restriction: At most 999 measurements can be entered into a list.

Editing Data

Correcting a data value

- To correct a data value before pressing ENTER, press the left arrow, retype the value and press ENTER.
- To correct a data value in a list after pressing ENTER, move the cursor to highlight the incorrect value in the list and then type in the correct value and press ENTER.
- To delete a data value in a list, move cursor to highlight the value and press DEL.
- To change a data value in a list, move cursor to highlight the value, type the correct value and press ENTER.

Inserting a data value in a list

1. Move cursor to position where data value is to be inserted, then press 2nd DEL (to select INS).
2. Type data value and press ENTER.

Clearing a List

1. Move the cursor onto the list name.

2. Press CLEAR, and then press either the down arrow or ENTER.
Lists

Sorting a List

1. Enter the data into list L1.

2. Press STAT 2 to select SortA( to sort list in ascending order or STAT 3 to select SortD( to sort list in descending order.

3. Press 2nd 1 ENTER (to select L1). The calculator will display Done.

4. Press STAT ENTER (or STAT 1) to display the sorted list.

Creating and Naming a New List

1. Display the stat list editor.

2. Move the cursor onto a list name (the new list will be inserted to the left of highlighted list), then press 2nd DEL (to select INS). The Name= prompt is displayed and alpha-lock is on. To exit from alpha-lock, press ALPHA.
3. Type in a name for the new list. (A maximum of 5 characters is allowed and the first character must be a letter.)

4. Press ENTER twice.

Another way to create and name a list is to highlight a list name, and then press the right arrow until you reach the unnamed list, then type in the name.

Removing a List from the Stat List Editor

1. Move the cursor onto the list name.

2. Press DEL.

The list is not deleted from memory; it is only removed from the stat list editor.

Displaying All List Names

Press 2nd STAT (to select LIST).

Restoring a List to the Stat List Editor

1. Press STAT 5 to select SetUpEditor.

2. To restore:

   (a) a default list, press 2nd 1 (to select L1) or 2nd 2 (to select L2), and so on.
(b) a user-created list, press 2nd STAT (to select LIST), move the cursor to the list you wish to restore. Press ENTER.

To restore more than one list, separate the list names with a comma.

3. Press ENTER.
4. Press STAT ENTER to view the list data.

Restoring the Default Lists

1. Press STAT 5 to select SetUpEditor.
2. Press ENTER.

This procedure restores the six default lists, and removes any user-created lists from the stat list editor.

Copying One List to Another

To copy the data in List 1 to List 2.

1. Move the cursor onto L2.
2. Press 2nd 1 (to select L1).
3. Press **ENTER**. The data values from List 1 now appear in List 2.

<table>
<thead>
<tr>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

Combining Two or More Lists into a Single List

To combine data in List 1 and List 2 and store results into List 3:

1. Press **2nd STAT** (to select **LIST**), arrow to **OPS**, and select **9:augment**.

2. Enter **L1,L2)**, press **STO**>, and enter **L3**. Press **ENTER**.

Note: If we had entered **L2,L1** then the entries in List 2 would be listed first in List 3.
Applying Arithmetic Operations to Lists

To add the corresponding entries in List 1 and List 2 and then store these sums in List 3.

1. Enter the values in L1 and L2.

   Note: the lists must contain the same number of data values, otherwise you will get a dimension mismatch error message.

2. Move the cursor onto L3.

3. Press 2nd 1 (to select L1).

4. Press +.

5. Press 2nd 2 (to select L2).

   \[
   l_3 = l_1 + l_2
   \]


Attaching a Formula to a List Name

To add 5 to each entry in List 1, and store the result in List 2.

1. Enter the values in List 1.

2. Move the cursor onto L2.

3. Press ALPHA + (to select "),
4. Enter \( L1 + 5 \), press \( \text{ALPHA} + \) (to select ").

\[
\begin{array}{|c|c|c|}
\hline
L1 & L2 & L3 \\
\hline
2 & 4 & ----- \\
5 & 3 & ----- \\
----- & ----- & ----- \\
\hline
L2 = "L1 + 5" \\
\hline
\end{array}
\]

5. Press \( \text{ENTER} \).

\[
\begin{array}{|c|c|c|}
\hline
L1 & L2 & L3 \\
\hline
2 & 4 & ----- \\
5 & 3 & ----- \\
----- & ----- & ----- \\
\hline
\end{array}
\]

A lock symbol appears next to the list name to which the formula is attached. By using the quotations marks, any edits made to entries in List 1 are automatically updated in List 2.

**Detaching a Formula from a List Name**

1. Move the cursor onto the list name to which the formula is attached.

2. Press \( \text{ENTER CLEAR ENTER} \).

   All list elements remain, but the formula is detached and the lock symbol disappears.

**Deleting a List from Memory**

1. Press \( \text{2nd} + \) (to select \( \text{MEM} \)).

2. Select \( \text{2:Delete...} \).

3. Select \( \text{4:List...} \).

4. Arrow to list that you wish to delete and, for a TI-83, press \( \text{ENTER} \); for a TI-83 Plus, press \( \text{DEL} \).