**Deleting the Bottom Step.** If the program pointer is at the bottom step of memory, pressing **9 DEL** deletes two steps in memory: the 100th step *and* the 99th step. When deleting the bottom step of a program, remember to reinsert the extra lost step.

Backstepping. If, using SSI, you happen to overshoot the mark only slightly, you can use DEL to recover. Simply backstep the program pointer by deleting the intervening steps, make the required insertion or deletion, and then reenter the deleted steps. This procedure is often easier than repositioning the pointer by other means.

## **Revising a Program**

Now that you're familiar with the editing procedures, let's put that knowledge into practice with an example.

We'll take the volume of a sphere program and change it to calculate the area of a sphere  $(r^2 \times \pi \times 4)$ . The two programs are very similar. Otherwise it wouldn't be feasible to change one to the other. Side by side they look like this:

## Volume of a Sphere Area of a Sphere Beginning of program. Beginning of program. 3 2 Calculates r2.\* Calculates r3. yx П Times $\pi$ . Times $\pi$ . × 4 4 Times 4. Times 4. 3 End of program. Divided by 3. End of program.

As you can see, there is little to change. Key in the sphere volume program now if you have not already done so by following this procedure:

- 1. Switch the calculator to W/PRGM mode.
- 2. Press f PRGM to clear program memory.
- 3. Key in the keystroke list on the left.
- 4. Switch back to RUN mode.

Use the following example to check your program before we edit it. **Example.** Find the volume of a sphere of radius 25.

Press	See Displayed
25 A	65449.85

In order to change the sphere volume program to a sphere area program, we need to make the following changes:

Volume of a Sphere	Area of a Sphere
LBL	LBL
A	A
3 ← Delete this step.	≥ ← Insert this step.
g	9
уx	ух
9	g
TT .	T
×	×
4	4
x	×
3 ← Delete this step.	RTN
÷ ← Delete this step.	
RTN	

<sup>\*</sup> These steps could be changed to f1 or ENTER+ × to save space but it would have made this example more difficult to follow.