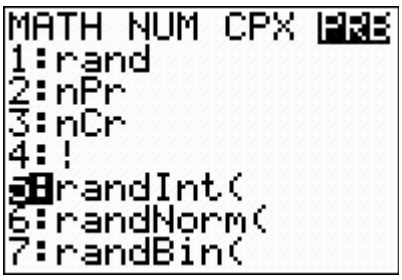
Birthday Paradox
Random Integers on TI83/TI84Plus

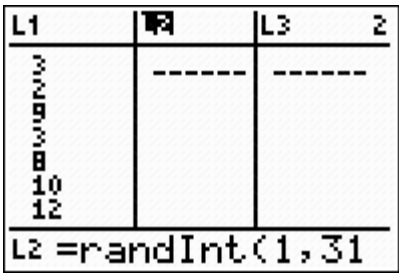
1. Enter the random data into the calculator

- Choose the [STAT] key
- Choose [1.Edit] from the [EDIT] menu
- Move the cursor up so that [L1] is selected

To populate [L1] with random numbers:

- Press [MATH] and move to the PRB menu.
- Select `5:randInt(`
- Enter the numbers 1, 12, 23 and)
- Press [ENTER] and then [STAT][EDIT] to view your random list.



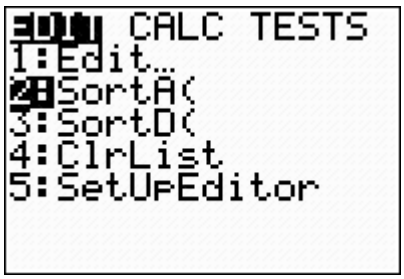


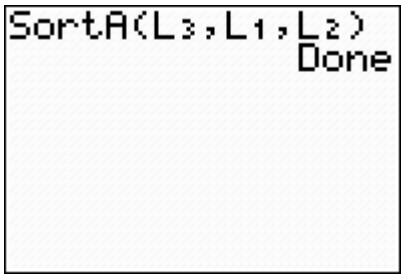
To populate [L2] with random numbers:

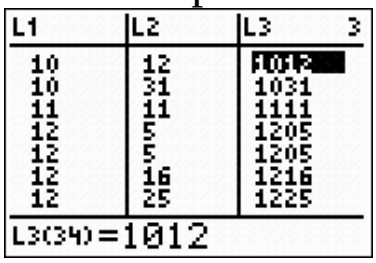
- Repeat the steps above, but with [L2] selected.
- ALSO – use `randInt(1,31,23)`

2. Sort and look for Duplicates

- Select [L3] from [STAT][EDIT]
- Enter this formula to get a unique number for each date: $L_3=100*L_1+L_2$
- Sort with the following steps:
  - Press [STAT] and select `2.SortA(`
  - Enter the arguments L_3,L_1,L_2
- View the sorted list of numbers in L_3 to find duplicate dates.







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