# HOW TO PROGRAM INVT INTO TI-83/ TI-83 PLUS CALCULATOR

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PROGRAM: INVT
:Input "AREA LEFT: ",A
:Input "DF: ",D
:1→S
:If A<.5
:Then
:-1→S
:End
:abs(2*A—1)→A
:TInterval 0,√(D+1),(D+1),A
:Disp upper*S
:
```

Press the PRGM key, then NEW. Name it INVT.

**Input** is found in PRGM, I/O, option 1: Input

**All letters, spaces, quotation marks, and colons** are found using the ALPHA key, and finding what you need in green. (The space key is above 0. Quotation marks are above +. The colon is above the decimal point.)

Arrow key is STO→

**<** is found in CATALOG (scroll up to find it, it's near the bottom) OR 2nd, MATH (to get to TEST), option 5: <

**Then** is in PRGM, CTL, 2

**End** is in PRGM, CTL, 7

**abs(** is in CATALOG or MATH, NUM, 1

**TInterval** is found in STAT, TESTS, 8

**Disp** is found in PRGM, I/O, 3. **upper** is in VARS, 5: Statistics, TEST, scroll up... I: upper

Press enter again and leave last line blank, then 2nd, MODE (for QUIT)

You're done!

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To run the program, press PRGM, EXEC 1: INVT, press enter

Press enter again, then put in the area to the left, press enter.

Enter in degrees of freedom, or df.

It will calculate your t-score for you!

*Note: If you make any mistakes at any point, just go back into PRGM, EDIT, and keep going where you left off.

**Example:**

AREA LEFT:    .98    ←for 96% confidence level. There is .02 in the left tail, so we must add it to .96.

DF     10     ← if n=11, df = 11 - 1 = 10

The t-score is 2.35931462

YouTube link:

http://www.youtube.com/watch?v=5Ft5eZVJtPk