

**NAME**

cdf – Compute the sample cumulative distribution function or CDF of a set of observations.

**SYNOPSIS**

**cat observations | \${HOME}/bin/exe/cdf > CDF**

**DESCRIPTION**

The program reads up to 1000 numbers from standard in and uses SORT8 to put them into ascending order. Then it finds, for each observation I, the fraction of the observations that are less than or equal to X(I), and writes coordinates for plotting that quantity as a function of X.

**UNITS**

- 5 list of observations read from standard-in
- 6 plotting coordinates for the sample CDF of the observations

**DIAGNOSTICS**

If more than 1000 input values are supplied the program writes an error message and stops with return code 1.

**AUTHOR**

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