

**CODEH****PURPOSE**

Generate a hinge coded variable.

**DESCRIPTION**

The data are coded as follows:

PERCENTILE	CODE
=====	=====
0 <= x <= lower hinge	1
lower hinge < x <= median	2
median < x <= upper hinge	3
upper hinge < x <= 100	4

A hinge is a slightly different way to calculate the upper and lower quartiles. The lower hinge is the median of the points between the minimum and the median while the upper hinge is the median of the points between the maximum and the median.

**SYNTAX**

```
LET <xprime> = CODEH <x1>                <SUBSET/EXCEPT/FOR qualification>
where <x1> is a response variable;
    <xprime> is a variable of the same length as <x1> where the coded values are saved;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.
```

**EXAMPLES**

```
LET XPRIME = CODEH X1
```

**NOTE**

If the response variable contains all distinct values, then the coded values will be equally split among 1, 2, 3, and 4. However, if the response variable contains ties, this may not be true. For example, in the program below no values are coded as 4.

**DEFAULT**

None

**SYNONYMS**

None

**RELATED COMMANDS**

CODE	=	Generate a coded variable.
CODE2	=	Generate a binary coded variable.
CODE8	=	Generate an octal coded variable.
CODE4	=	Generate a quartile coded variable.

**APPLICATIONS**

Data transformations

**IMPLEMENTATION DATE**

Pre-1987

**PROGRAM**

```
LET X1 = DATA 12 15 4 12 12 4 15 4 15
LET XPRIME = CODEH X
```

The variable XPRIME will contain the values 2, 3, 1, 2, 2, 1, 3, 1, 3.