gbg.map.to.factor.v1

The function converts a character, factor, numeric, or logical vector to a factor vector, where the mapping of values is specified explicitly by a list object. The conversion is performed element-by-element.

Libraries: none

Dependencies: none

Owner: Karsten Weber

Parameters:

| **Name** | **Values** | **Default** | **Description** |
| --- | --- | --- | --- |
| x | Character, factor, numeric, or logical | <must be specified> | The data to convert.  If x contains values not specified in map, an error will be raised. |
| map | List | <must be specified> | Each list element defines a level of the returned factor variable by its name. The value of each list element is a vector of values in x; it must have a data type compatible to x. |
| na.values | Character, factor, numeric, or logical | NULL | Values in x to be mapped to NA in the returned factor variable. |

Returns:

A factor vector. The length of the returned value is the same as of x. The levels are the names of the elements of map, in the same order and irrespective whether respective values are contained in x.

Examples:

# code grading

gbg.map.to.factor.v1(c(1:3, NA), list(G1=1, G2=2, G3=3))

# summarize grades 1 and 2, define 0 as missing

gbg.map.to.factor.v1(c(0:3, NA), list("G1-2"=c(1,2), G3=3), 0)

# detect value with no mapping defined

gbg.map.to.factor.v1(c(1:4, NA), list("G1-2"=c(1,2), G3=3))

Error in gbg.map.to.factor.v1(c(1:4, NA), list(`G1-2` = c(1, 2), G3 = 3)) :

bad value detected