

# gap report gaps, inversions, and repeats in numerical columns

doc generated from the script with `gap`

bash script, version=3.00

## Synopsis

`gap options filename`

Options

```
-c, --column=INT      set column to INT; default: 1
-s, --separator=re    set column separator to Ruby regexp; default: tab
-f, --first           stop after reporting the first missing number
-h, --help            print this help and exit
-H, --Help           print full documentation via less and exit
-V, --version         print version and exit
```

## Description

`gap` inspects (supposedly sorted, decimal) numerical columns in tab-separated databases and reports missing numbers, duplications and inversions. Columns are counted starting at 1. `gap` can also read from standard input. Leading zeros are stripped from numbers before use.

## Options

Options are shown in the Synopsis section in logically identical pairs, with the full version in the second column and the minimum shorthand (without any parameters) in the first. You can set option defaults in an alias. For example:

```
alias gap='gap --separator=":'
```

```
--help
prints help information and exits
--Help
shows full documentation via less, then exits
--version
prints name and version and then exits
--col=number
look for gaps in column number.
--separator=string
assume string to be the column separator regular expression, instead of the default tab
(\t). For example, to make any sequence of non-digit characters separate the columns:
--separator='[^[:digit:]]+'
--first
stop after reporting the first missing number of range
```

## Examples

With this input in file test:

```
12:001
12:002
12:003
13:006
14:007
14:008
15:009
26:010
27:008
27:009
28:010
```

29:11  
30:12  
31:13a  
32:14  
33:15  
34:  
35:17

here are some examples:

```
$ gap -s: test
 4:  2 repeats of 12
 7:  1 repeat of 14
 8: 10 missing 16 .. 25
11:  1 repeat of 27

$ gap -s: -c2 test
 4:  2 missing 4 .. 5
 9:  2 back 10 -> 8
14: bad number 13a using 13
17: empty field
17:  1 missing 16
```

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