Specification for program “series”

Name

series – generate an additive series of numbers

Usage

series start end [stepsize]

Description

series prints the real numbers from **start** to **end**, one per line. **series** begins with **start** to which **stepsize** is repeatedly added or subtracted, as appropriate, to approach, possibly meet, but not pass **end**.

If all arguments are integers, only integers are produced in the output. The **stepsize** must be nonzero; if it is not specified, it is assumed to be of unit size (1). In all other cases, **series** prints an appropriate error message.

Example

To count from 1 to 100:

```
series 1 100
```

To do the same, but backwards:

```
series 100 1
```

Limitations

The reported number of significant digits is limited. If the ratio of the series range to the **stepsize** is too large, several numbers in a row will be equal.

The maximum length of a series is limited to the size of the maximum long integer that can be represented on the machine in use. Exceeding this value has undefined results.

Author

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