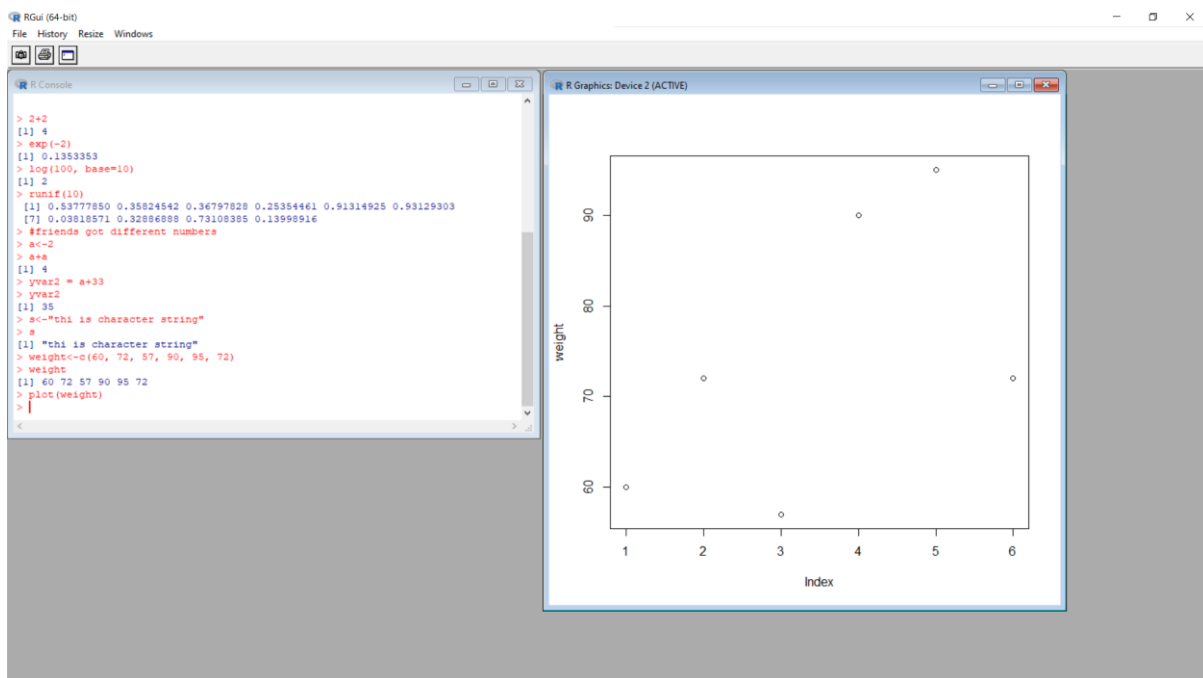
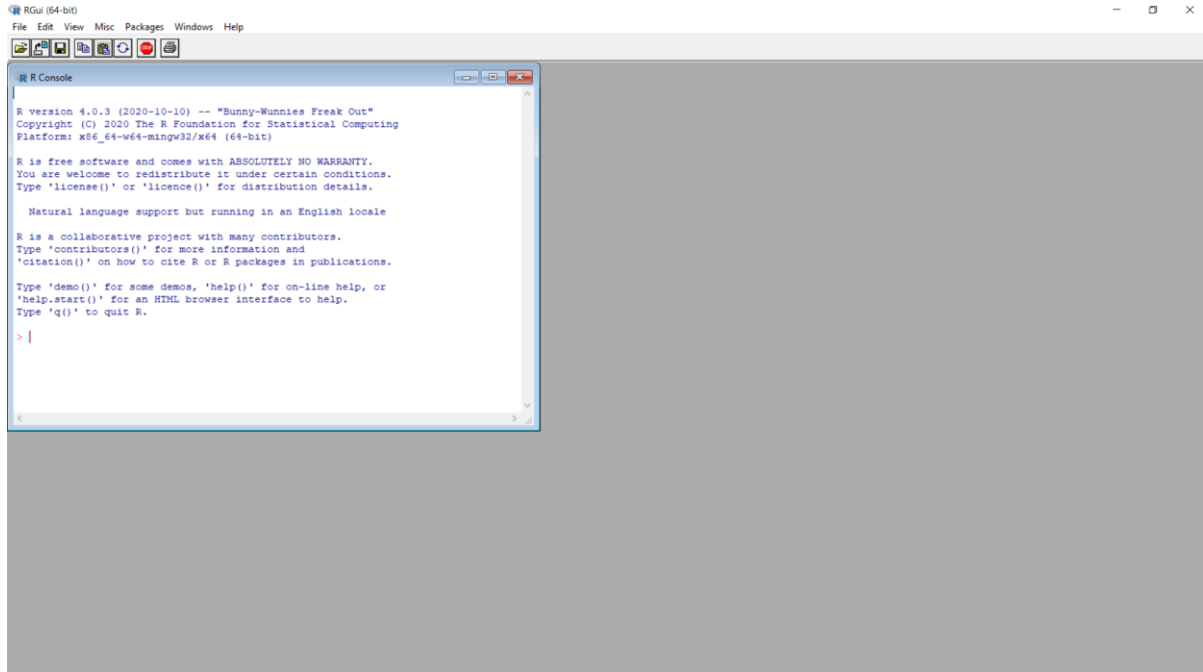


# SCS2211 Laboratory II

## R worksheet 1 Assignment

18001645



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127.0.0.1:15428/library/base/html/seq.html

seq [base] R Documentation

### Sequence Generation

**Description**

Generate regular sequences. `seq` is a standard generic with a default method. `seq.int` is a primitive which can be much faster but has a few restrictions. `seq_along` and `seq_len` are very fast primitives for two common cases.

**Usage**

```
seq(...)
## Default S3 method:
seq(from = 1, to = 1, by = ((to - from)/(length.out - 1)),
    length.out = NULL, along.with = NULL, ...)
seq.int(from, to, by, length.out, along.with, ...)
seq_along(along.with)
seq_len(length.out)
```

**Arguments**

... arguments passed to or from methods.

from, to the starting and (maximal) end values of the sequence. Of length 1 unless just `from` is supplied as an unnamed argument.

by number: increment of the sequence.

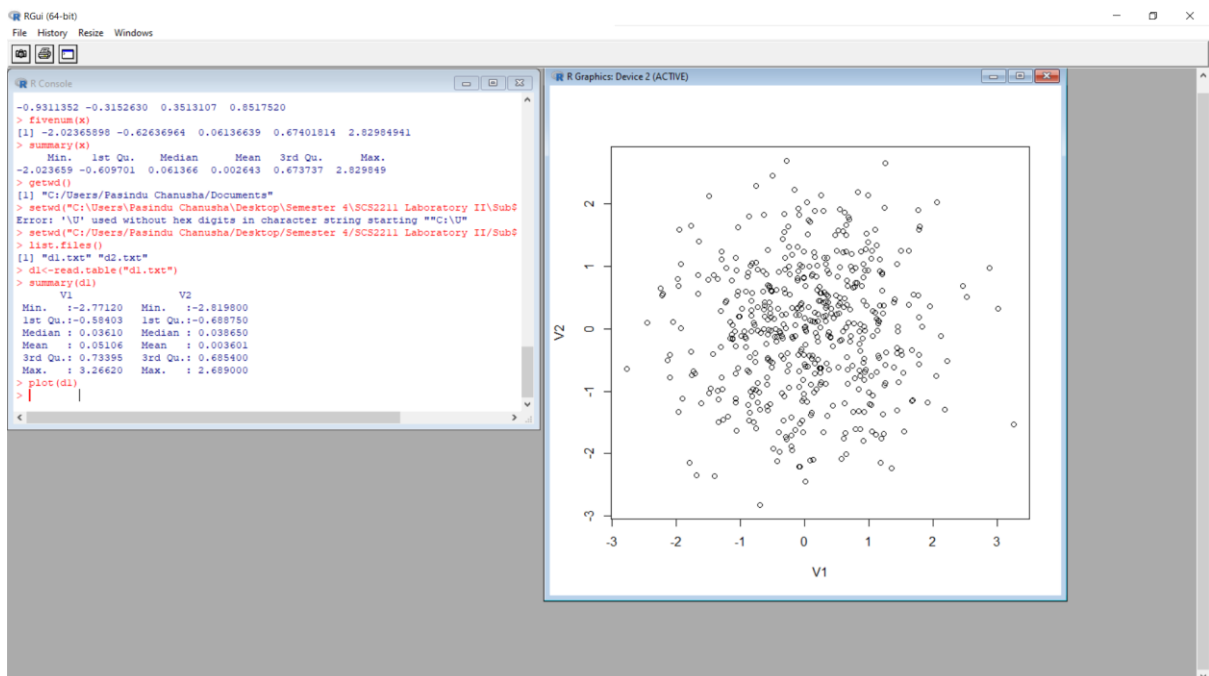
length.out desired length of the sequence. A non-negative number, which for `seq` and `seq.int` will be rounded up if fractional.

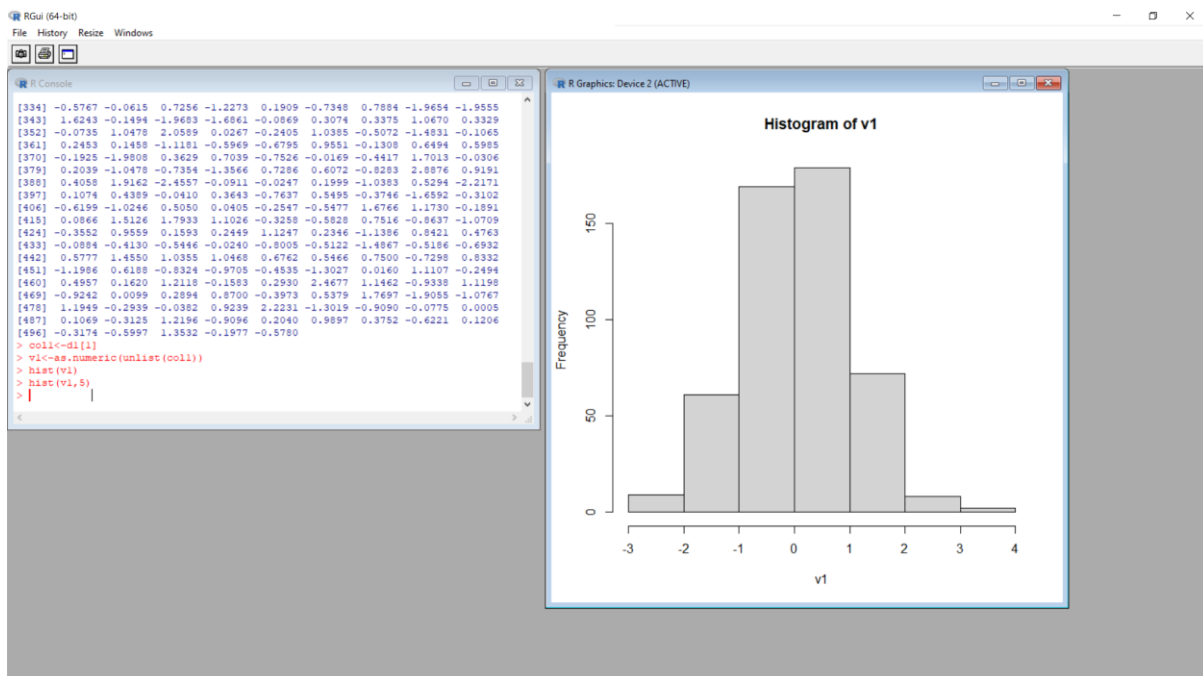
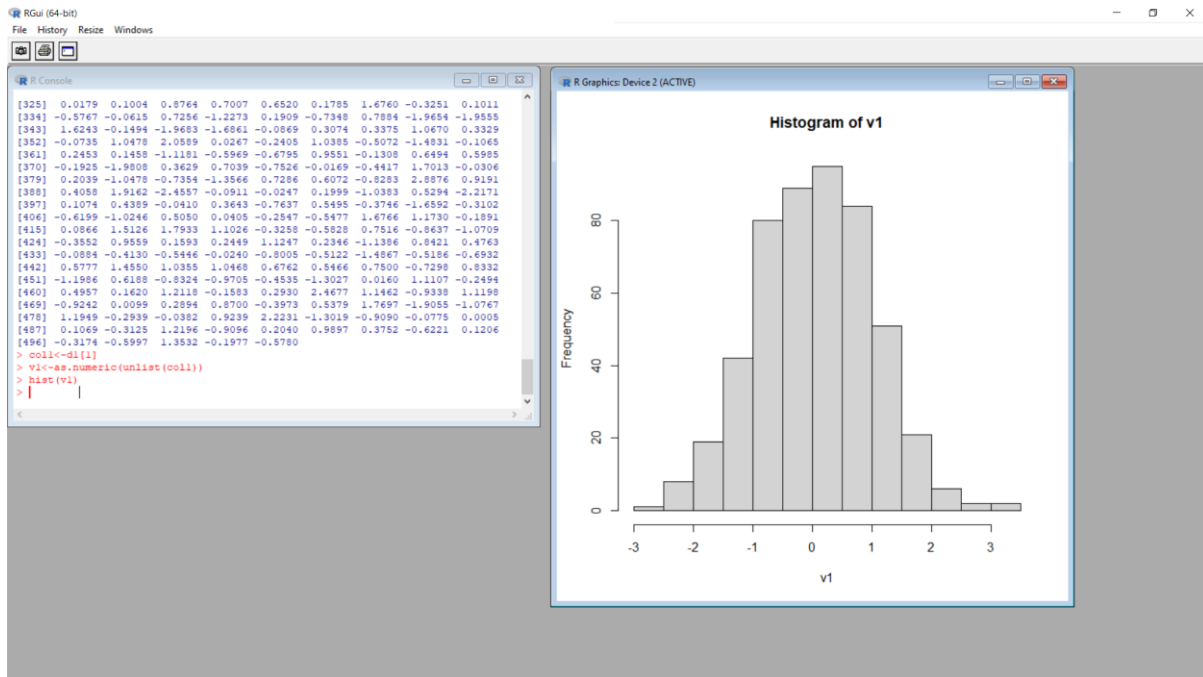
along.with take the length from the length of this argument.

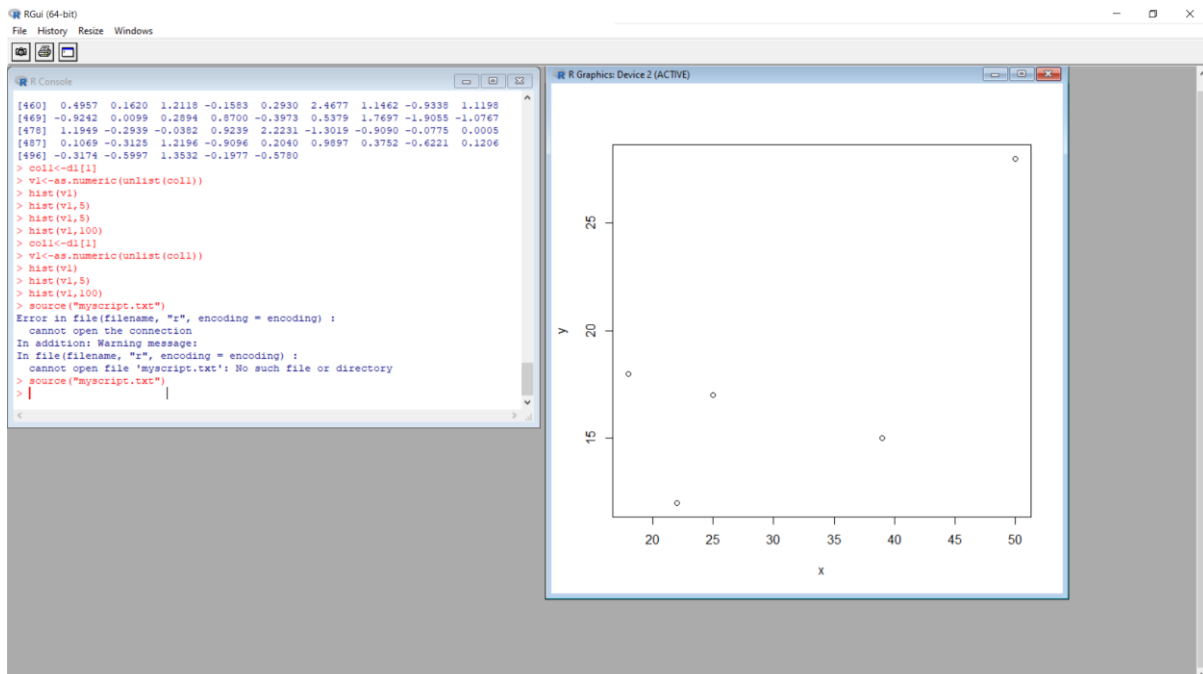
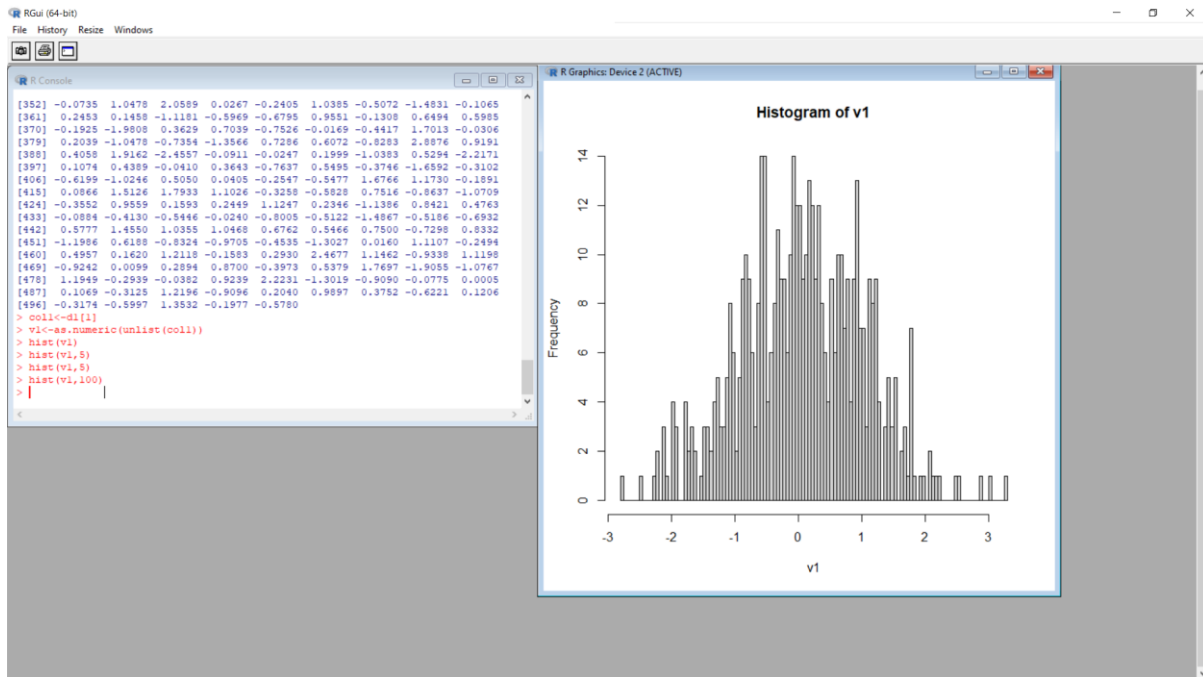
**Details**

Numerical inputs should all be [finite](#) (that is, not infinite, [NaN](#) or [NA](#)).

d2.txt d1.txt 18001645.pdf Show all







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127.0.0.1:19768/library/base/html/save.html

save {base} R Documentation

### Save R Objects

**Description**

save writes an external representation of R objects to the specified file. The objects can be read back from the file at a later date by using the function `load` or `attach` (or `data` in some cases).

`save.image()` is just a short-cut for 'save my current workspace', i.e., `save(list = ls(all.names = TRUE), file = ".RData", envir = .GlobalEnv)`. It is also what happens with `q("yes")`.

**Usage**

```
save(..., list = character(),
      file = stop("'file' must be specified"),
      ascii = FALSE, version = NULL, envir = parent.frame(),
      compress = isTRUE(lascii), compression_level,
      eval.promises = TRUE, precheck = TRUE)

save.image(file = ".RData", version = NULL, ascii = FALSE,
           compress = lascii, safe = TRUE)
```

**Arguments**

... the names of the objects to be saved (as symbols or character strings).

list A character vector containing the names of objects to be saved.

file a (writable binary-mode) [connection](#) or the name of the file where the data will be saved (when [tile expansion](#) is done). Must be a file name for `save.image` or `version = 1`.

ascii if TRUE, an ASCII representation of the data is written. The default value of `ascii` is FALSE which leads to a binary file being written. If NA and `version >= 2`, a different ASCII representation is used which writes double-complex numbers as binary fractions.

version the workspace format version to use. NULL specifies the current default format (3). Version 1 was the default from R 0.99.0 to R 1.3.1 and version 2 from R 1.4.0 to 3.5.0. Version 3 is supported from R 3.5.0.

envir environment to search for objects to be saved.

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127.0.0.1:19768/library/base/html/load.html

load {base} R Documentation

### Reload Saved Datasets

**Description**

Reload datasets written with the function `save`.

**Usage**

```
load(file, envir = parent.frame(), verbose = FALSE)
```

**Arguments**

file a (readable binary-mode) [connection](#) or a character string giving the name of the file to load (when [tile expansion](#) is done).

envir the environment where the data should be loaded.

verbose should item names be printed during loading?

**Details**

load can load R objects saved in the current or any earlier format. It can read a compressed file (see [save](#)) directly from a file or from a suitable connection (including a call to `url`).

A not-open connection will be opened in mode "rb" and closed after use. Any connection other than a `gzfile` or `gzcon` connection will be wrapped in `gzcon` to allow compressed saves to be handled; note that this leaves the connection in an altered state (in particular, binary-only), and that it needs to be closed explicitly (it will not be garbage-collected).

Only R objects saved in the current format (used since R 1.4.0) can be read from a connection. If no input is available on a connection a warning will be given, but any input not in the current format will result in an error.

Loading from an earlier version will give a warning about the 'magic number': magic numbers 1971:1977 are from R < 0.99.0, and 0d[ABX]1 from R 0.99.0 to R 1.3.1. These are all obsolete, and you are strongly recommended to re-save such files in a current format.

The `verbose` argument is mainly intended for debugging. If it is TRUE, then as objects from the file are loaded, their names will be printed to the console. If `verbose` is set to an integer value greater than one, additional names corresponding to attributes and other parts of individual objects will also be printed. Larger values will print names to a greater depth.

Objects can be saved with references to namespaces, usually as part of the environment of a function or formula. Such objects can be loaded even if the namespace is not available: it is replaced by a reference to the global environment with a warning. The warning identifies the first object with such a reference (but there may be more than one).

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