2017 PSS SUMMER SCHOOL

Assignment 1

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Due: 12:30pm on June 22

1 Problem 2.1

1.1 a.

- **str(obj, ...):** Gives the structure of an R object *obj*. Particularly useful for displaying the contents of lists. Does not return anything, but instead prints output to the terminal.

- `is.vector(x, mode="any")`: Used to determine whether an object x is a vector with type *mode*. If *mode* == "any" then returns TRUE if x is any type of vector. Otherwise returns TRUE if typeof(x) == *mode*, FALSE otherwise.

- *is.atomic(x):* Returns TRUE if object x is of an atomic type, FALSE otherwise.

- *is.list(x):* Returns TRUE if object x is a list or pairlist of length > 0.

1.2 b.

- TYPEOF(X): Determines the type or storage mode of object x. Returns a character string with the type or mode.

- is.numeric(x): Returns TRUE if object x is of mode numeric (i.e. it has type integer or double), FALSE otherwise.

- IS.INTEGER(X): Returns TRUE if object x is of type integer, FALSE otherwise.

- IS.DOUBLE(X): Returns TRUE if object x is of type double, FALSE otherwise.

- IS.CHARACTER(X): Returns TRUE if object x is of type character, FALSE otherwise.

- IS.LOGICAL(X): Returns TRUE if object x is of type logical, FALSE otherwise.