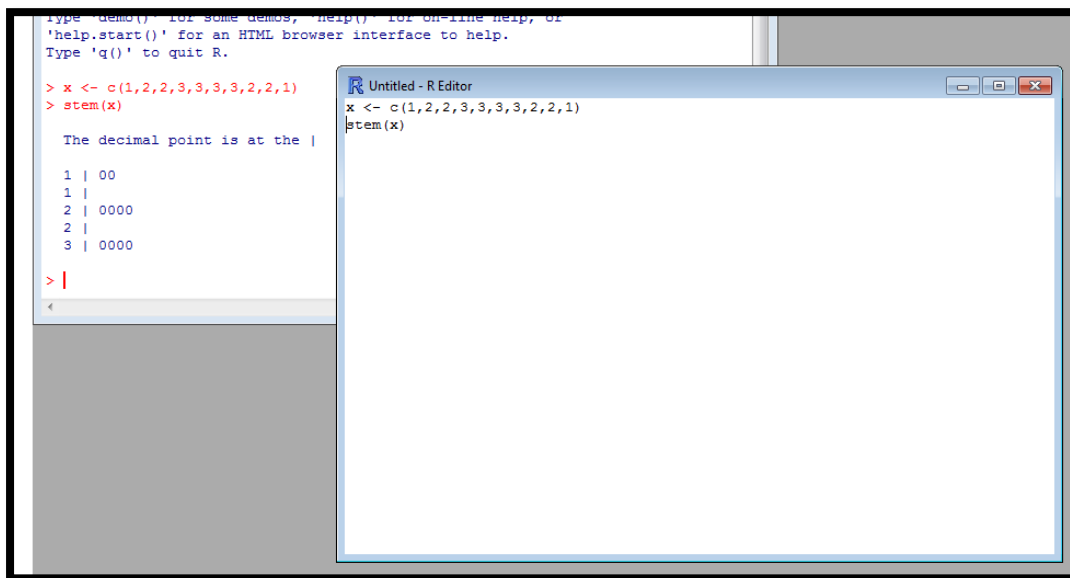


Generating a Stem and Leaf Plot in R

- [Inputting data straight into R:](#)

When typing your data straight into R there is a simple command to generate a stem and leaf plot. For example if our data is: 1, 2, 2, 3, 3, 3, 3, 2, 2, 1. Then we input the data in R using the `x <- c(1,2,2,3,3,3,3,2,2,1)` command (where x is what you're calling the data). Then the command `stem(x)` will generate the stem and leaf plot. As seen below:



```

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> x <- c(1,2,2,3,3,3,3,2,2,1)
> stem(x)

The decimal point is at the |

 1 | 00
 1 |
 2 | 0000
 2 |
 3 | 0000

> |

```

Untitled - R Editor

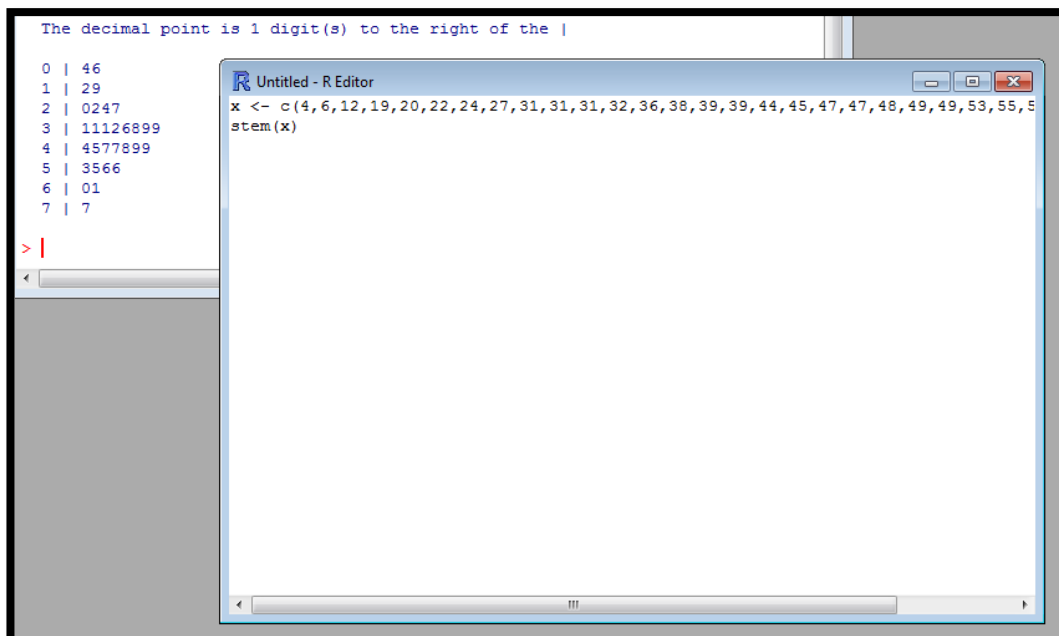
```

x <- c(1,2,2,3,3,3,3,2,2,1)
stem(x)

```

A more detailed example:

Data set: 4, 6, 12, 19, 20, 22, 24, 27, 31, 31, 31, 32, 36, 38, 39, 39, 44, 45, 47, 47, 48, 49, 49, 53, 55, 56, 56, 60, 61, 77.



```

The decimal point is 1 digit(s) to the right of the |

 0 | 46
 1 | 29
 2 | 0247
 3 | 11126899
 4 | 4577899
 5 | 3566
 6 | 01
 7 | 7

> |

```

Untitled - R Editor

```

x <- c(4,6,12,19,20,22,24,27,31,31,31,32,36,38,39,39,44,45,47,47,48,49,49,53,55,56,56,60,61,77)
stem(x)

```

- Inputting data from an excel file:

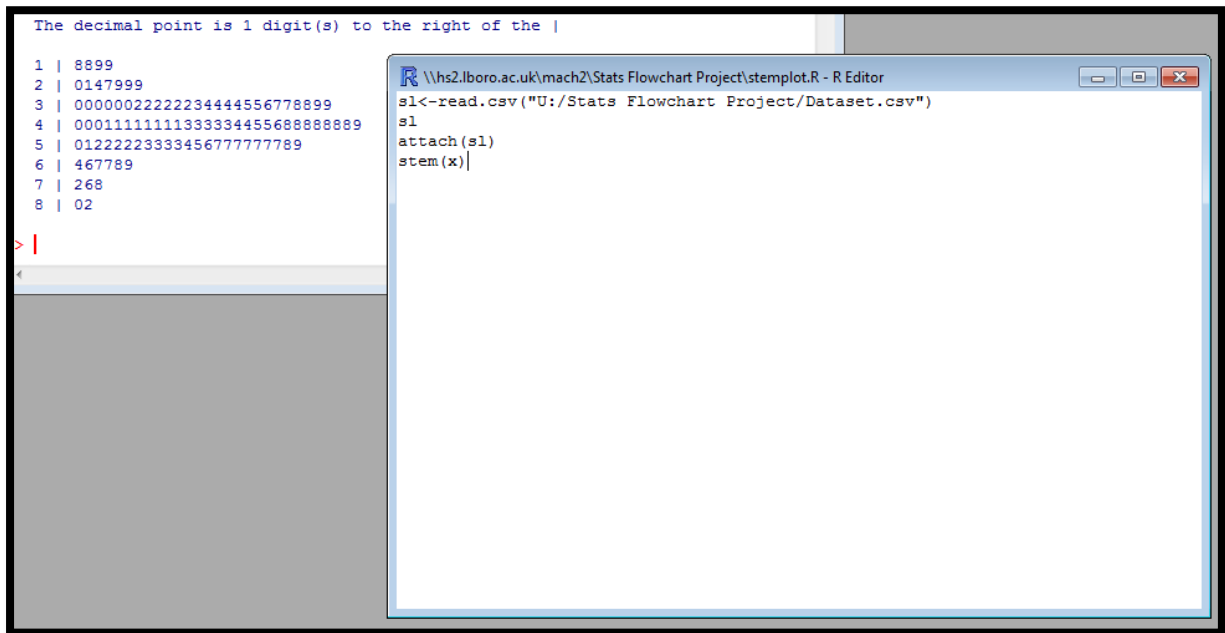
When importing data from R we need to use the command read.csv as follows:

```
sl<-read.csv("U:/Stats Flowchart Project/Dataset.csv")
```

```
sl
```

```
attach(sl)
```

The text in red is where the excel file can be found in your documents, and 'sl' is what we have called our data. The **stem(x)** command can then be used again to generate the stem and leaf plot. As seen below:



The screenshot shows an R console window on the left and an R script editor window on the right. The console window displays a stem and leaf plot for the data in 'sl'. The plot shows the following data points:

```
1 | 8899
2 | 0147999
3 | 0000002222234444556778899
4 | 0001111111133333445568888889
5 | 012222333345677777789
6 | 467789
7 | 268
8 | 02
```

The R script editor window shows the following code:

```
sl<-read.csv("U:/Stats Flowchart Project/Dataset.csv")
sl
attach(sl)
stem(x)
```