

Problem set 1:

1. Create a vector called "vec" that contains the numbers 1:500. Have r report the mode, length, and class of that vector

2. Create a matrix called "dataSet" that has the following elements:

0.1 1 10

0.2 2 12

0.3 3 14

0.4 4 16

Print out only the third column of this matrix. Find the mean of the third column.

3. r has a function called var(). Find out how it works using the help page. Then find the variance of the vector $z \leftarrow 1:1000$.

4. Create a plot of $y=x^2$ where x ranges from -5 to 5.