Homework 1

- 1. How many digits does N=1234567891011121314...9998999910000 have, where N is formed by concatenating $1,2,3,\ldots,9999,10000?$ (*Hint*: you might want to look up the functions nchar(), as.character(), paste())
- 2. Compute

$$1^2 + 2^2 + 3^2 + \dots + 99^2 + 100^2$$