1) (5 pts) Write a script that will estimate the value of the definite integral

$$I = \int_{-2}^{2} x e^{-x} \, dx$$

using the trapezoidal rule. You can only use one loop, so you need to tabulate the function and do the trapezoidal rule at the same time.

2) (4 pts) Write a script that will take the string

        `s = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'`

and create a new string

        `t = 'ZYXWVUTSRQPONMLKJIHGFEDCBA'`

Note that there is a built in command to do this, but you should use a loop over the elements of `s` and manually insert the elements into `t`.