



GaYoung Park. I pledge my honor that I have abided by the Stevens Honor System.

In the main function, I load the needed values into the stack

In loop, I have the function loop until the term value, stored in x6. X3 increments until it equals x6, calculating the n! And  $x^n$  for that term

After the loop  $1 \times 3 = x6$ , it branches to SUM where  $1/n!$  And  $x^n$  are calculated and multiplied and stored in d4. D4 always has the current ith term. All the ith terms are saved in d0. Afterwards, x6 is incremented by 1, indicating that we are looking for the next term that follows. All the variables such as  $1/n!$  Or  $x^n$  are set to their initial value again. If  $x6 \neq i$ , it branches to loop if not, it goes to print where the value of the sum, stored in d0, is printed.

