## Homework 2

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Your task is to read one integer from the standard input, and print the sum of the factorials of its digits:

$$
167 \Rightarrow 1!+6!+7!=1+720+5040=5761
$$

## $>$ Notice that $0!=1$.

Your code must comply with the following rules:

- You can only use the EAX, EBX, ECX, EDX, ESI and EDI registers.
- You are not allowed to use the memory/data segment.
- You must use the read_int and print_int functions (from the textbook) for I/O.
- You can only use the commands you have learned so far in the class. You cannot use MUL, IMUL, DIV, IDIV, etc.
- You MUST NOT PRINT ANY REDUNDANT DATA.

Remember that your code will be tested for similarity. In the case of cheating the student will receive a negative mark. It is your responsibility to protect your code.
Please upload only the ".asm" file on vc.kntu.ac.ir.

## Example:

Input:
145
Output: Spring 1400 (2020)

## Input:

1055

## Output:

242

Input:
12
Output:
3

Input:
111

## Output:

3

Input:
0

## Output:

1

