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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:

> Notice that 0! = 1.

Your code **<u>must</u>** 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**: 145 Assembly & Machine Language - B. Nasihatkon Spring 1400 (2020)



Input:

1055

Output:

242

Input: 12 Output: 3

Input: 111 Output:

3

Input: 0

Output:

1