

Thou shall not pass! (30 Points)

ZPRAC-16-17-Lab3

Kriti's concert successfully finished without any problems. Samik-Some feeling responsible for the failure decides to improve his skills and leaves for the extremely cold Sumalayas. PSY, as a last ditch attempt at reducing Kriti's popularity says that she has failed her exams. Kriti, shocked by PSY's words takes her exams again. Given her marks in the three subjects, you need to decide if she has passed her exams or not. If she indeed passes, also mention the grade.

Input: The input consists of a single line containing Kriti's marks in 3 subjects, m_1, m_2, m_3 ($0 \leq m_1, m_2, m_3 \leq 1000$). Marks are whole numbers.

Output: Print Kriti's grade as per the following scheme,

If $marks < 40$ in any subject: Print 'F'

Otherwise, If $marks > 100$ in any subject: Print 'Nice Handwriting'

Else: Follow the following scheme for the average marks (avg).

$avg \leq 40$: Print 'F'

$avg \leq 50$: Print 'E'

$avg \leq 60$: Print 'D'

$avg \leq 70$: Print 'C'

$avg \leq 80$: Print 'B'

$avg \leq 90$: Print 'A'

Else: Print 'A*'

Example:

Input:

100 100 20

Output:

F

Input:

60 90 60

Output:

C

