

Letter grades

Given the overall score of a student, please calculate the corresponding letter grade using following rules:

Overall score	Letter grade
90 – 100	A
85 – 89	A-
80 – 84	B+
75 – 79	B
70 – 74	B-
65 – 69	C+
60 – 64	C
55 – 59	C-
53 – 54	D+
52	D
50 – 51	D-
0 – 49	F

Input

An only integer p which is the overall score ($0 \leq p \leq 100$).

Output

The corresponding letter grade.

Sample

Input	Output
40	F
73	B-