

HQNP Incomputable Hard

See problem [HQNP](#) for description.

Score : Score is number of test cases correctly solved.

Limits

Any HQ0-9+–INCOMPUTABLE?! program(output for each case) must be at most 20,000 commands long. The accumulator is unbounded (it can store an arbitrarily large integer). After each command, the buffer must be at most 20,000 characters long. To prevent code injection vulnerabilities, during the execution of your program(output for each case) the buffer must never contain non-alphanumeric characters, i.e. characters other than A-Z, a-z, and 0-9. If it happens, your score for that particular test case will be 0.

Additionally for this challenge you must use the command '+' at least once for each test case.

Input

First line has integer T i.e number of test cases. ($T \leq 1000$). Next T lines has a number n ($0 \leq n \leq 10^{1000}$).

Output

For each n, output the required HQ0-9+–INCOMPUTABLE?! program(having '+' at least once) which will give n as output. If there are multiple solutions, output any one of them. Output of each test case must be in a single line. If you don't want to solve a test case, leave a blank line for it.

PS : No of test cases in 11 test files are respectively -> 10, 10, 100, 1000, 80, 20, 40, 500, 100, 50, 200

Update (Dec/5/2012) : A small bug in judge which was causing internal error has been fixed. With refinement in test files, all solutions have been rejudged.