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stack

We want to write a program that calculates the result of a **prefix** or **suffix** expression . In the input, any expression may be given to you, and you must recognize whether it is a prefix or a suffix, and then obtain the result of the expression. The operators used in this problem in it is considered to include the following operators:

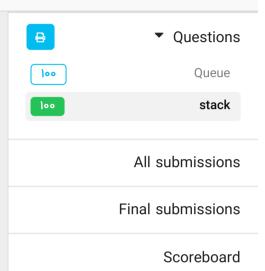
^ means power. Note that numbers and operators are separated by space. Consider negative numbers as well and round the division down, for example, suppose 3/10 is 3.

Input 1

Output 1

52

Input 2



17
+ 1 - 2 * ^ 2 3 - 1 / 10 / 5 + 2 3

Exit2

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.The training period is over

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