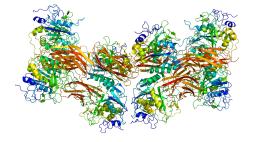


Furin Back

Time limit: 3000 ms Memory limit: 256 MB

Write a program that does what the following program does:

- 1			>,<>>,>,<[->-	
1 2			>+<><<]+->>[-<<+>>	1
3			:+-><><<<[-+->-<+-<+:	>1<
4		F -		1
5		>>>	+[>><>>[-]<[-<>-+]	<<>[-
6		+-]-	++-+-< [-]<:	><<>[+
7		+]		+-<<<>>
8		-+<><<		<+-<<[-> >>>>>+
10		>+<<<>	·	<><<<<
11		<<<<]>[->>	>>><>
12 13		><>>+>>	>>>>+	<<<<>>
13		<<<<+-<	. <<<]>	[->>>>
14			>><>+	
15 16 17			>>>>-	
16			+><>>	
18			+<<<<	
19	<<<><<	-+><1	>>-++-+>+-+[<-]	<[->>
20	<>++-<<<1>>>>	[-<<<	++<<<<+>>>>>	>>>]>
21	[-<<-+<<<<<+<>>>	+->>>	>>>]>[-<<<<>	><<+>
22	>>>>>]>>>>+	[-<<<	<++<><+-<<<<	<[->>
23	+>>+<<<<]+->[->>+>>	+-+<<	<<]>[-<<+>>)[-	<<+>>
24]+[[<>-]-++>[<-]<+-[+><	>><>-<<(]>>-+->	>>+>[
25 26	<-]<+-[- >+>[-]-<<[-> ><-	<-]<[>+->-	>>[-< +-<<<	<-+-> <]]<]
27	>>-<<< <	<+>[>	<<-1<	[>+->
28	[-+<<-	>)<<[₹]]≯-	+-]>>
29	>>><>>	>><>+	1	>+-<<
30	<>+>-	++[<-]<[-+	>>+[<
31	<<>->	-+]<<	[>>>+	[<-+<
32	<->>]	<<<[<]]]>-]>>>>
33 34	[-]<<	<<<<< >+>+[-+<>< <-]<[->>+<
35	⟨[-]⟩ ><<<]	>+>[<	-]<[>	>[<<-
36	>]<<[<]]>-	[+>>>	>>>><
37	++-++	+++++	++<<<	<<<+>>
38	+-[<<>	-]<[>	>[<<-	>]<<[
39	<]]>-[++>[<	-]<[- -[<-]	>>-<<
40	<]>>-> >	+>>+>	-[<-]	<[<<[
41	->>>+<< ><<]+->>	>>>+>	+[<><
42 43	-]<><[-> >+<<<]<[>>[<->]<->]<->-]<->-]<> <-> <-> <-> <-> <-> <-> <-> <-> <->]<<-< >>+++]<<<< +++++[->	+>[<-
44	+<]>[-<<<+>>>>)	>>+><	>-+[<-]<[>>	[<<->
45	1<<[<1]>-[++>[<-1]	<[->>	-<<<]>>>-<<<	
46]<<[<]]>-[++>[<-] +>+[<-]<[->>+<<	<]>>>	>>>>*+>[<-]<[>>
47	[<<->]<<[<]]>	-]<<[-]<<<<+>	[<-]< [.<]!
48	[>>[<<->]<<[<]]>-]<<	[.<]!



Hint: I gave no one real evidence. Furin is not dielectric; and not a great random acoustic magnet; oxidized filovirus; towards human enzyme; this is to lure enigma.

Standard input

The first line contains an integer T, the number of test cases.

The next T lines each contain a string of three printable ASCII characters representing one test case.

Standard output

For each test case, print the output of the given program on a single line.

Constraints and notes

- $1 \le T \le 10$ A printable ASCII character has an unsigned 8-bit integer value between 33 and 126.

Input	Output
4	12
XXX	90
XXX	44
***	4
<=>	
2	264
0>?	884
dev	