

## 727 Equation

Write a program that changes an infix expression to a postfix expression according to the following specifications.

### Input

1. The infix expression to be converted is in the input file in the format of one character per line, with a maximum of 50 lines in the file. For example,  $(3+2)*5$  would be in the form:

```
(  
3  
+  
2  
)  
*  
5
```

2. The input starts with an integer on a line by itself indicating the number of test cases. Several infix expressions follows, preceded by a blank line.
3. The program will only be designed to handle the binary operators  $+$ ,  $-$ ,  $*$ ,  $/$ .
4. The operands will be one digit numerals.
5. The operators  $*$  and  $/$  have the highest priority. The operators  $+$  and  $-$  have the lowest priority. Operators at the same precedence level associate from left to right. Parentheses act as grouping symbols that over-ride the operator priorities.
6. Each testcase will be an expression with valid syntax.

### Output

The output file will have each postfix expression all on one line. Print a blank line between different expressions.

### Sample Input

```
1  
  
(  
3  
+  
2  
)  
*  
5
```

### Sample Output

```
32+5*
```