

## Equation

### Input and Output

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

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. The output file will have each postfix expression all on one line. Print a blank line between different expressions.
7. Each testcase will be an expression with valid syntax.

### Sample Input

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

### Sample Output

```
32+5*
```

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