2.2 Polish Calculator

Due 16 Sep 2019 by 23:59   **Points** 0   **Submitting** an external tool

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Polish notation   **(https://en.wikipedia.org/wiki/Polish_notation)** is a mathematical notation in which operators *precede* their operands, in contrast to the more common infix notation, in which operators are placed *between* operands. Compare the two notations in this example:

- infix notation: 2 + 3
- Polish (prefix) notation: + 2 3

For this assignment, write a simple calculator using a *switch* statement. The calculator should be able to evaluate simple expressions consisting of a number, an operator, and another number. Each number is an element of the set of real numbers (*R*). Each operator is an element of + , − , ∗ , /.

The program should read expressions in Polish notation, evaluate them, and print them, with the result, in infix notation. This process should repeat until the letter *q* (as in "quit") is entered in place of the operator. You can assume that only valid expressions will be entered.
An example of a correct execution of the program is shown below:

```
Enter the expression: + 2 3
2 + 3 = 5
Enter the expression: * 2.3  4
2.3 * 4 = 9.2
Enter the expression: q
```

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