

Prefix stack:

In this program, we evaluate mathematical expressions with a prefix stack.

The way the program works is, the stack takes in the numbers from right to left. This is done using the function *isDigit* which returns true or false whether a character is a digit or not.

Once an operator is encountered, the stack pops the last two stored numbers and operates.

The program knows which operation to do because I used a switch statements that evaluate the character encountered. Based on that character, it performs the mathematical operation and pushes the answer back onto the stack. This is done until we only have one value remaining in the stack (the solution) and therefore we return the stack top.