Text

Description automatically generated with medium confidence

As you scan the string, maintain the 3 variables above + if character is

1. Number: Convert to number
2. Operator: Perform operation 🡪 reset number=0 🡪 Negate sign if operator is –
   1. We negate sign since operation is performed via result += sign \* number
3. Bracket:
   1. Opener: This is a start of new expression so save (push) your result/sign in a stack and reset result/sign for this expression
   2. Closer: With the end of expression, perform operation 🡪 reset number=0.   
      🡪Pop the cached result/sign from stack and update the result

After scanning, perform 1 last operation if last number != 0