```
C:\Windows\system32\cmd.exe

C:\DEEPAK\infs 519\hw2>javac CalcEx.java
Note: CalcEx.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

C:\DEEPAK\infs 519\hw2>java CalcEx A2-sample-expressions-UTD.txt


START OF DYNAMIC ARRAY STACK IMPLEMENTATION


 the infixfix expression is:3 +  4  * 6

 the postfix expression is:3 4 6 * +
the postfix result is:27.0


 the infixfix expression is:7 * (6 + 15 - 11 *2) + 20

 the postfix expression is:7 6 15  +11 2*-  *20 +
the postfix result is:13.0


 the infixfix expression is:        4 * 6 / 3

 the postfix expression is:4 6  *3 /
the postfix result is:8.0


 the infixfix expression is:8/5 + (10 - 5)

 the postfix expression is:8 5  /10 5- +
the postfix result is:6.6


 the infixfix expression is:3*    (6 - 11)

 the postfix expression is:3 6 11- *
the postfix result is:-15.0


 the infixfix expression is:((5  + 11   ) * 3) - 19

 the postfix expression is:5 11+ 3* 19 -
the postfix result is:29.0


 the infixfix expression is:3*4 - 5

 the postfix expression is:3 4  *5 -
the postfix result is:7.0


 the infixfix expression is:                  1 + 2 * 5 - 9   + 3/6 - 21

 the postfix expression is:1 2 5  * +9  -3 6  / +21 -
```

```
C:\Windows\system32\cmd.exe
```

```
 the infixfix expression is:                    1 + 2 * 5 - 9    + 3/6 - 21

 the postfix expression is:1 2 5   * +9  -3 6  / +21 -
the postfix result is:-18.5


 the infixfix expression is:11 + 9 * ((16 / 4 + 5) / 3)

 the postfix expression is:11 9 16 4  /5+ 3/ * +
the postfix result is:38.0


 the infixfix expression is:  (123 - 3)/4 + 51

 the postfix expression is:123 3- 4  /51 +
the postfix result is:81.0


 the infixfix expression is:1 + 2 * 4 - 9    / 3

 the postfix expression is:1 2 4  * +9 3 / -
the postfix result is:6.0


 the infixfix expression is:((((1024 /   2)/2 ) / 2) /2)

 the postfix expression is:1024 2/ 2/ 2/ 2/
the postfix result is:64.0
The infix expression contains an invalid character

The infix expression contains an invalid character

The infix expression should start and end either with digit or braces

braces mismatch

The infix expression contains an invalid character


START OF LINKED LIST STACK IMPLEMENTATION


 the infixfix expression is:3 +  4  * 6

 the postfix expression is:3  4  6 * +

the postfix result is:27.0


 the infixfix expression is:7 * (6 + 15 - 11 *2) + 20

 the postfix expression is:7  6  15    +11  2*-    *20 +
```

```
 the infixfix expression is:7 * (6 + 15 - 11 *2) + 20
 the postfix expression is:7  6  15    +11  2*-   *20 +
the postfix result is:13.0

 the infixfix expression is:       4 * 6 / 3
 the postfix expression is:4  6   *3 /
the postfix result is:8.0

 the infixfix expression is:8/5 + (10 - 5)
 the postfix expression is:8  5   /10  5- +
the postfix result is:6.6

 the infixfix expression is:3*    (6 - 11)
 the postfix expression is:3  6  11- *
the postfix result is:-15.0

 the infixfix expression is:((5  + 11   ) * 3) - 19
 the postfix expression is:5  11+  3*  19 -
the postfix result is:29.0

 the infixfix expression is:3*4 - 5
 the postfix expression is:3  4   *5 -
the postfix result is:7.0

 the infixfix expression is:             1 + 2 * 5 - 9   + 3/6 - 21
 the postfix expression is:1  2  5   * +9   -3  6   / +21 -
the postfix result is:-18.5

 the infixfix expression is:11 + 9 * ((16 / 4 + 5) / 3)
 the postfix expression is:11  9  16  4   /5+  3/ * +
the postfix result is:38.0
```

```
the infixfix expression is:11 + 9 * ((16 / 4 + 5) / 3)
the postfix expression is:11  9  16  4   /5+  3/ * +
the postfix result is:38.0

the infixfix expression is:  (123 - 3)/4 + 51
the postfix expression is:123  3-  4   /51 +
the postfix result is:81.0

the infixfix expression is:1 + 2 * 4 - 9    / 3
the postfix expression is:1  2  4   * +9  3 / -
the postfix result is:6.0

the infixfix expression is:((((1024 /   2)/2 ) / 2) /2)
the postfix expression is:1024  2/  2/  2/  2/
the postfix result is:64.0
The infix expression contains an invalid character
The infix expression contains an invalid character
The infix expression should start and end either with digit or braces
braces mismatch
The infix expression contains an invalid character
C:\DEEPAK\infs 519\hw2>
```