Exercise 1

Exercise 1.1

The hardest part of the assignment was to understand and implement the recursive descendant parser, so I first wrote it in JavaScript so I could understand the algorithm and how to implement the parser. The main challenge was the implementation of the parser in c++, I ran into several problems. Most problems were small problems that occurred when rewriting the code from javascript, but there was one big problem I made and that was I initialized a non pointer variable with nullptr. I got undefined behavior and I needed to use the visual studio debugger.

#Input
Input file

```
config dec
print 1 + 1
print 3 + 3 * 3
print ( 3 + 3 ) * 3
x = 2 - -2
y = x
z = y * ( 16 / ( y - 2 ) )
print x
print y
print z
config hex
print z
config bin
print z
```

Print-out

```
2
12
18
4
4
32
0x20
00000000000000000000000000100000
```