- Befunge Instruction Sheet
 - 0 -> 9 Add integer to Stack
 - + Addition: Pop a and b, then push a+b
 - Subtraction: Pop a and b, then push b-a
 - * Multiplication: Pop a and b, then push a*b
 - / Integer division: Pop a and b, then push b/a, rounded towards 0.
 - % Modulo: Pop a and b, then push the remainder of the integer division of b/a.
 - : Duplicate value on top of the stack
 - \ Swap two values on top of the stack
 - \$ Pop value from the stack and discard it
 - Pop value and output as an integer followed by a space
 - , Pop value and output as ASCII character
 - @ End of Program
 - > Start moving RIGHT
 - < Start moving LEFT
 - ^ Start moving UP
 - v Start moving DOWN
 - # Bridge, jump over next instruction.
 - ! Logical NOT: Pop a value. If the value is zero, push 1; otherwise, push zero.
 - `- Greater than: Pop a and b, then push 1 if b>a, otherwise zero.
 - Pop a value; move right if value=0, left otherwise
 - I Pop a value; move down if value=0, up otherwise
 - p Pop y, x, and v, then change the character at (x,y) in the program to the character with ASCII value v
 - g Get a value from a grid element. Pop y and x, then push ASCII value of the character at that position in the program.

Build a Befunge Parser

- Use your preferred language to build a Befunge parser.
 - Given a program in a 2D Grid, your parser should navigate through the program & output the result.
 - Start by implementing a simple calculator which just reads across a single line & outputs a result.
 - For example, this calculation should give you a result of 42:

32*81-*.@

Create Befunge Programs

- Extend your parser to handle loops and conditional statements.
 - Test your parser by creating a Befunge program which counts down from 9 until 1 before printing "Liftoff"
 - Create a Befunge program which calculates x to the power of y i.e. x=2, y=4 should give a result of 16. For simplicity x & y are both between 1 & 9.
 - Create a Befunge program which calculates the first 10 Fibonacci numbers.
 - Create a Befunge program which calculates x Factorial.

NB - If possible try & solve the above problems without using the p & g operators to update the Program Grid.