Repetition CMPT 140

What does this do?

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3 4

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6 7

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9

```
screen size = 220
   min_square_size = 5
   def setup():
        global screen_size
        size(screen_size,screen_size)
   def draw():
        global screen_size
10
        global min_square_size
11
        square_size = 200
12
        while (square_size >= min_square_size):
13
            rect( 0,0,square_size,square_size )
14
            square_size = square_size/2
```

Write the following interactive program.

First, define a variable $n_circles$ with an initial value of 3.

Then, draw n_circles white circles (diameter 20) in a diagonal line.

- if the user hits '+', increase the number of circles drawn.
- if the user hits '-', decrease the number of circles drawn.



Hint: The formula for determining the ith circle's centre is:

$$(i * 20 + 10, i * 20 + 10)$$

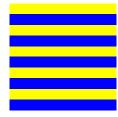
Given the following pre-defined variables:

```
screen_size = 200
total_rows = 10
row_height = screen_size/total_rows
```

Write a program that displays alternating yellow and blue rows.

- the number of rows is equal to total_rows
- the height of each row is given by row_height
- the first row is yellow

Note: Your program must work for **any value** of total_rows!



Demo 1

Beware infinite loops!