Example: nested stars

                                            Code fragment

    Ideas/questions/algorithm

    Draw a black square
- Bigger than the biggest star
- Center at (0,0)
- Make side length 2.1

    Draw a sequence of stars
- Stars get smaller
- Stars alternate in color
- 1st star smaller than the sqr
    - o radius r=1 to start
- When to stop?
    - o when r small

Example: is it prime?

- Write a program fragment to determine whether a given integer n is prime. Assume n>1.
- Reminder: rem(x,y) returns the remainder of x divided by y.

Ideas/questions/algorithm   *Code fragment*

Example: are they prime?

Given positive integers a and b where a<b, sketch a program that lists all the prime numbers in the range [a, b].

Example: Times table

Ideas/questions/algorithm	*Code fragment*

```
disp('Times table')
lo= input('What is the lower bound? ');
hi= input('What is the upper bound? ');
```

Example: Find the biggest rectangle

Draw 5 yellow rectangles that a user specifies using mouse clicks. Then draw the biggest one in red.

Ideas/questions/algorithm	*Code fragment*

```
% Background
drawRect(0,0,1,1,'k')
title('Click twice for a rectangle')
n= 5;  % number of rectangles
```