Lecture 11 Exercises

CS 51P – Fall 2019

 is equal to :

Unless it is very small, in which case is it equal to:

Define a recursive function exp that takes two arguments (x and n, both ints) and returns the value

Define a recursive function exp that takes two arguments (x and n, both ints) and returns the value using the square\_and\_mutliply recursive definition

A triangle\_drawing\_2 is:

Unless it is very small, in which case is it:

Define a recursive function triangle\_drawing\_2(x,y, size) that will produce the image above and count the number of (solid) triangles drawn.. Assume that “really small” means side length (i.e., size) less than 10.



A triangle\_drawing\_3 is:

Unless it is very small, in which case is it:

Define a recursive function triangle\_drawing\_3(x,y, size) that will produce the image above. Assume that “really small” means side length (i.e., size) less than 20.