**Big-oh problems**

What is the running time of each of the following examples, expressed in big-oh notation? Assume "n" is the input size to the algorithm (the amount of data the algorithm must process).

Algorithm A:

for (int x = 0; x < n; x++) {

System.out.println("Hi!");

}

Algorithm B:

for (int x = 0; x < n; x++) {

for (int y = 0; y < n; y++) {

System.out.println("Hi!");

}

}

Algorithm C:

for (int x = 0; x < n; x++) {

for (int y = 0; y < n; y++) {

for (int z = 0; z < n; z++) {

System.out.println("Hi!");

}

}

}

Algorithm D:

for (int x = 0; x < 100; x++) {

System.out.println("Hi!");

}

Algorithm E:

for (int x = n; x > 0; x--) {

System.out.println("Hi!");

}

Algorithm F:

for (int x = 0; x < n/2; x++) {

System.out.println("Hi!");

}

Algorithm G:

for (int x = 0; x < Math.log(n); x++) {

System.out.println("Hi!");

}

Algorithm H:

for (int x = 0; x < n; x \*= 2) {

System.out.println("Hi!");

}