```
ID #: 1704280
Date: September 21, 2019
Data Structures – Lab Assignment #3
Main(){
System.out.println("Enter first number");
                                                                        1
int x = input.nextInt();
                                                                        1
System.out.println("Enter second number");
                                                                        1
int y = input.nextInt();
                                                                        1
int a=GCD(x,y);
                                                                        1
System.out.println("The ans:"+a);
                                                                        1
}
GCD (x,y)
                                                                        log(n)
\{if y=0
                                                                        1
return x;
                                                                        1
If x \ge y & x! = 0
                                                                        1
{GCD y, x mod y}
                                                                        1
Code snippet
BigO(log(n))
Main(){
System.out.println("Enter number");
                                                                        1
int x = input.nextInt();
int a= Hanoi(x);
                                                                        1
System.out.println("The ans:"+a);
                                                                        1
}
Hanoi(n)
                                                                        2^n
```

Name: Tasi-Anna Mighty