

Int GCD(int x, int y) {	
System.out.println("Error");	1
int i;	1
while (i!=0) {	n
if(i>=y&&x!=0) {	1
i=x;	1
x=y;	1
y=i % y;	1
}	
}	
return x;	1
}	

$$(O)GCD = 1 + 1 + n(1+1+1+1) + 1$$

$$= 2 + 4n + 1$$

$$= 0 + 4n + 0$$

$$= 1n$$

$$= O(n)$$

$$= \text{Linear}$$

int Hanoi (int n) {	
while (n!=1) {	n
if (n>1) {	1
return 2*hanoi (n-1)+1;	1
}	
}	
return 1;	1
}	

$$(O)Hanoi = n(1+1) + 1$$

$$= 2n + 1$$

$$= 2n + 0$$

$$= 1n$$

$$= O(n)$$

= Linear