```
int gcd(int x, int y)
{
        int temp;
                              1
        while (y!=0)
                      n
        {
                if (x>=y && x!=0)
                                    n
                {
                       temp=x;
                                     1
                       x=y;
                                   1
                       y=temp;
                                     1
                }
        }
 return x;
                          1
}
O (gcd)= 1 (n (n (1+1+1) +1))
=1 (n (3n) +1)
=3n^2 + 1
=n^2
=quadratic
int hanoi(int n)
{
 while(n!=1)
                           n
  {
    if(n>1)
                         n
      {
           return 2*hanoi(n-1)+1;
                                   1
```

```
}
return 1; 1

O(hanoi)= n (n (1+1))
=n (2n)
=2n^2
=n^2
=quadratic
```