```
Void Hanoi (int n)
{
    int i;          (1)
    int n;          (1)
    printf("Enter n")   (1)
    Scanf("%n")     (1)
    while (n=1)     (n)
    {
        return 1;
        for (i=1; n>i; i++)     (log n)
        {
            return 2* Hanoi(n-1)+1   (1)
        }
        printf("Enter");        (1)
    }
}
```

Answer

$1+1+1+1+n+\log n+(n+1)$

$4+n(\log n)+2$

$6+n(\log n)+2$

$6+\log n^2+2$

$6+2\log n^2$

$6+\log n^2$

$=O(\log n^2)$

```
void GCD (int x, int y)
{
    int b = 0;                    (1)
    int x;                        (1)
    int y;                        (1)
    for (y=0; b<=y; y++)          (n)
    {
        return x;                 (1)
    while (x>y, || x!=0)          (logn)
        return (y, x%y)           (1)
    }
}
```

Answer

$1+1+1+(n+1+(\log n)+1)$

$3+n(1+\log n+1$

$3+n(2+\log n)$

$0+n(0+\log n)$

$= O(\log n)$