

```
int gcd(int m, int n){  
    if (m % n == 0) return n;  
    else return gcd(n, m % n);  
}
```

```
/*
```

```
Precondition:  $m, n > 0$ 
```

```
Post condition: GCD( $m, n$ ) returned.
```

```
*/
```

NPTTEL

```
void tree(int L, double rx, double ry,
          double H, double W){
    // L levels, Root at (rx,ry), Height H, Width W
    if(L>0){
        Line left(rx, ry, rx-W/4, ry-H/L);
        Line right(rx, ry, rx+W/4, ry-H/L);
        right.imprint();
        left.imprint();
        tree(L-1, rx-W/4, ry-H/L, H-H/L, W/2);
        tree(L-1, rx+W/4, ry-H/L, H-H/L, W/2);
    }
}

/*
Preconditions: L >= 0
Post conditions: Drawing happens in rectangle with
top left at rx-W/2,ry-H, bottom right at 2rx,ry
*/
```

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