```java
int factorTree ( int n ) {
    int height = 0 ;
    while ( n > 1 ) {
        boolean flag = false ;
        for ( int i = 2 ; i <= Math . sqrt ( n ) ; i ++ ) {
            if ( n % i == 0 ) {
                n = n / i ;
                flag = true ;
                break ;
        } }
        height ++ ;
        if ( ! flag ) { break ; } }
    return height ; }
```