

```
1  int FactorTree ( int n ) {  
2      int height = 0 ;  
3      while ( n > 1 ) {  
4          bool flag = false ;  
5          for ( int i = 2 ; i <= sqrt ( n ) ; i ++ ) {  
6              if ( n % i == 0 ) {  
7                  n = n / i ;  
8                  flag = true ;  
9                  break ;  
10             }  
11             height ++ ;  
12             if ( ! flag ) { break ; }  
13         return height ; }
```