

```

1: int power( int  $n$ , int  $k$  )
2: if  $k == 0$  then
3:     return 1
4: end if
5: if  $k$  is odd then
6:     return ( $n$  * power ( $n \times n$ ,  $\frac{(k-1)}{2}$ ))
7: else
8:     return (power(  $n \times n$ ,  $\frac{k}{2}$  ))
9: end if

```