

h index

h index  $\Rightarrow$  h

h papers should have at least h citations  
N-h papers should have no more than h citations.

[0 1 3 5 6]

citation count

0 < 5  
1 < 4  
3 = 3  
5 > 2  
6 > 1

[0 1 2 5 6]

0 < 5  
1 < 4  
2 < 3  
5 > 2  
6 > 1

[0 1 1 1 6]

0 < 5  
1 < 4  
1 < 3  
1 < 2  
6 > 1

[100]

[1000, 2000]

Binary Search  
citation < count

[0 2 2 2 6]

0 5  
2 4  
2 3  
2 2  
6 1

0 1 2 5 6  
 $\uparrow_l$   $\uparrow_m$   $\uparrow_h$

$2 < 5 - 2 = 3$   
low = mid + 1

> too far.  
high = mid - 1

0 1 2 3 4 5 6 7  
 $\uparrow$   $\uparrow$