No of pages: 2 1.   4   4

After reading i^{th}

B = 1   B = 1   B = 1   B = 1

B = 2 X   B = 2 X   B = 2   B = 2

                              B = 3 X   B = 3 X

B - books, at least b-pages

Ans:-   1   0   2   2.

Method:1 → frequency method
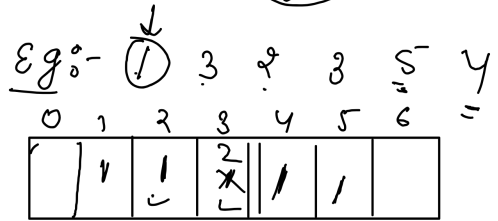
Freq[i] → how many books have i pages.

(b = 4)

```cpp
#include <bits/stdc++.h>
using namespace std;

#define IOS ios::sync_with_stdio(0); cin.tie(0); cout.tie(0);

int main() {
    IOS
    int t;
    cin >> t;
    while(t--) {
        int n;
        cin >> n;
        int freq[100001] = {};
        int b = 0, cnt = 0;
        for (int i = 0; i < n; ++i) {
            int x;
            cin >> x;
            freq[x]++;
            if(x > b) {
                cnt++;
            }
            if(cnt > b) {
                b++;
                cnt = cnt - b;
            }
        }
        cout << b << " ";
    }
}
```

Eg:- ① 3 2 3 5 4

 0 1 2 3 4 5 6

| 1 | 1 | 1 | 2 | 1 | 1 | |

b   cnt

i = 0,   2   0

                1   1

i = 1   1   0

i = 2   2   2 - 1 = 1

$|b = 3|$ → at least
→ kehne
↓

$b = 4$

1 2 3

$i = 3$
$i^o \leq 4$

2   2
3   3

3 → 2 & 1

free

Method-02