BUET Negative IQs 25

## l header

```
#define FastIO ios::sync_with_stdio(false);
    cin.tie(0);cout.tie(0)
#include <ext/pb_ds/assoc_container.hpp> // Common file
using namespace __gnu_pbds;
/*
find_by_order(k) --> returns iterator to the kth largest
    element counting from 0
order_of_key(val) --> returns the number of items in a
    set that are strictly smaller than our item
*/
```

```
typedef tree<
int,
null_type,
less<int>,
rb_tree_tag,
tree_order_statistics_node_update>
ordered_set;

#include <ext/pb_ds/assoc_container.hpp>
using namespace __gnu_pbds;
gp_hash_table<int, int> table;
struct custom_hash {
    static uint64_t splitmix64(uint64_t x) {
        // http://xorshift.di.unimi.it/splitmix64.c
```