

```
1 #include "../bits/stdc++.h"
2 // SegmentTree / DisjointSparseTable に載せるモノイド
3 struct RangeMinimumQuery
4 {
5     using type = int;
6     static type id() { return INT_MAX; }
7     static type op(const type &l, const type &r) { return std::min(l, r); }
8 };
9
10 struct RangeMaximumQuery
11 {
12     using type = int;
13     static type id() { return -INT_MAX; }
14     static type op(const type &l, const type &r) { return std::max(l, r); }
15 };
16
17 struct RangeSumQuery
18 {
19     using type = int;
20     static type id() { return 0; }
21     static type op(const type &l, const type &r) { return l + r; }
22 };
23
```