```
246 | set<seg> s;
247 | vector<set<seg>::iterator> where;
248
249 set<seg>::iterator prev(set<seg>::iterator it) {
250
         return it = s.begin() ? s.end() : --it;
251
252
253
    set<seg>::iterator next(set<seg>::iterator it) {
254
         return ++it;
255
256
    //use this
257
    pair<int, int> solve(const vector<seg>& a) {
258
259
         int n = (int)a.size();
260
         vector<event> e;
261
         for (int i = 0; i < n; ++i) {
             e.push_back(event(min(a[i].p.x, a[i].q.x), +1, i));
262
263
             e.push_back(event(max(a[i].p.x, a[i].q.x), -1, i));
264
         sort(e.begin(), e.end());
265
266
267
         s.clear();
268
         where.resize(a.size());
269
         for (size_t i = 0; i < e.size(); ++i) {</pre>
270
             int id = e[i].id;
271
             if (e[i].tp = +1) {
272
                 set<seg>::iterator nxt = s.lower_bound(a[id]), prv = prev(nxt);
273
                 if (nxt \neq s.end() & intersect(*nxt, a[id]))
274
                     return make_pair(nxt→id, id);
275
                 if (prv ≠ s.end() & intersect(*prv, a[id]))
276
                     return make_pair(prv\rightarrowid, id);
277
                 where[id] = s.insert(nxt, a[id]);
278
             } else {
279
                 set<seg>::iterator nxt = next(where[id]), prv = prev(where[id]);
280
                 if (nxt \neq s.end() \& prv \neq s.end() \& intersect(*nxt, *prv))
281
                     return make_pair(prv→id, nxt→id);
282
                 s.erase(where[id]);
             }
283
284
         }
285
         return make_pair(-1, -1);
286
287 | }
```