

```
1  const int MAXN = 100010;
2  const int MAX LOG = 18;
3  int v[MAXN];
4  int st[MAXN][MAX LOG];
5  int n;
6
7  void build() {
8      for(int j = 0; j < MAX LOG; ++j)
9          for(int i = 0; i < n; ++i) if(i + (1 << j) - 1 < n)
10             st[i][j] = (j ? min(st[i][j-1], st[i + (1 << (j-1))][j-1]): v[i]);
11 }
12
13 int query(int l, int r) {
14     // int x = log2(r-l+1);
15     int x=0;
16     int sz = (r-l+1);
17     while((1<<(x+1)) <= sz) ++x;
18     return min(st[l][x],st[r-(1<<x)+1][x]);
19 }
```