```
#include "../bits/stdc++.h"
 2 // https://en.wikipedia.org/wiki/Stern%E2%80%93Brocot_tree
 3 // 有理数に対する無限の高さを持つ二分探索木
7 using type = long long;
8 type p, n;
9 type u, v, x, y;
10
11 void sternBrocot(type pl = 0, type ql = 1, type pr = 1, type qr = 0)
12 | {
      type pm = pl + pr, qm = ql + qr;
if (pm > n || qm > n)
    return;
13
14
15
       if (p * (qm * qm) < pm * pm)
16
17
18
          x = pm;
          y = qm;
19
          sternBrocot(pl, ql, pm, qm);
20
21
       else if (p * (qm * qm) > pm * pm)
22
23
24
          u = pm;
25
          v = qm;
26
          sternBrocot(pm, qm, pr, qr);
27
28
29 }
30
```

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