```
1 #include \langle bits / stdc++.h>
2 #define maxn 1001
3 using namespace std;
   double eps = 1e-6;
4
   struct line//线段类
7
        double k, b;
8
        int id;
9
        line() {}
10
        line (double K, double B, int Bh)
11
            k = K; b = B; id = Bh;
12
13
        line(int x1, int y1, int x2, int y2, int Bh)
14
15
            k = double(y2 - y1) / (x2 - x1);
16
17
            b = y1 - k * x1;
            id = Bh;
18
19
20
        double f(int x)
21
22
            return k * x + b;
23
24 };
25 line zd[1600010];
26 bool bk[1600010];
27 double getjd(line a, line b)
28
        if (fabs(a.k - b.k) < eps) return -1;
29
30
        return (b.b - a.b) / (a.k - b.k);
31 }
32 bool check(line a, line b, int l, int r, int m, double x)
33 {
34
        if (x < m) return a.f(r) > b.f(r);
        else return a. f(1) > b. f(1);
36 }
   void pur(int i, int 1, int r, line a)
37
38
        if (!bk[i]) {
39
40
            zd[i] = a;
41
            bk[i] = true;
42
            return;
43
        double x = getjd(a, zd[i]);
44
        if (x < 1 | | x > r) {
45
            if (a. f(1) > zd[i]. f(1)) zd[i] = a;
46
47
            return;
48
        int m = (1 + r) >> 1;
49
50
        if (\operatorname{check}(\operatorname{zd}[i], a, 1, r, m, x)) {
51
            line t = a;
            a = zd[i];
52
            zd[i] = t;
53
54
55
        if (1 < r) {
            if (x \le m) pur (i \le 1, 1, m, zd[i]);
56
```

```
57
             else pur((i << 1) | 1, m + 1, r, zd[i]);
58
59
        zd[i] = a;
60 }
 61 void insert(int i, int l, int r, int L, int R, line a) //插入
         if (R < 1 \mid | r < L) return;
63
         if (L <= 1 && r <= R) {
64
             pur(i, 1, r, a);
65
 66
             return;
67
        }
         int m = (1 + r) >> 1;
 68
 69
         insert(i << 1, 1, m, L, R, a);
 70
         insert((i << 1) | 1, m + 1, r, L, R, a);
 71 }
    int getma(int i, int l, int r, int k, double& z) //获取极大值
 72
 73
74
        int rt;
75
         if (bk[i]) {
 76
             rt = zd[i].id;
 77
             z = zd[i].f(k);
        }
78
 79
        else {
80
            rt = 0;
 81
             z = -999999999:
82
83
         if (1 == r) return rt;
 84
         int m = (1 + r) >> 1, t;
85
         double tz;
86
         if (k \le m) t = getma(i \le 1, 1, m, k, tz);
         else t = getma((i << 1) | 1, m + 1, r, k, tz);
87
 88
         if (tz > z \mid | (fabs(tz - z) < eps && t < rt)) {
89
             z = tz;
90
             rt = t;
91
92
        return rt;
93 }
    int ma[40010], wz[40010];
94
 95
    int main()
96
97
         int n, 1a = 0, m = 0;
98
         scanf ("%d", &n);
         for (int i = 0; i < n; i++)
99
100
         {
             int 1x;
101
             scanf("%d", &1x);
102
             if (1x == 0) {
103
104
                 int k;
                 scanf("%d", &k);
105
106
                 k = (k + 1a - 1) \% 39989 + 1;
107
                 double z;
                 1a = getma(1, 1, 39989, k, z);
108
                 if (ma[k] > z \mid | (fabs(ma[k] - z) < eps && wz[k] < la)) la = wz
109
                   [k]:
110
                 printf("%d\n", la);
111
```

```
112
             else {
113
                 m += 1;
114
                 int x0, y0, x1, y1;
115
                 scanf("%d%d%d%d", &x0, &y0, &x1, &y1);
116
                 x0 = (x0 + 1a - 1) \% 39989 + 1;
                 x1 = (x1 + 1a - 1) \% 39989 + 1;
117
118
                 y0 = (y0 + 1a - 1) \% 1000000000 + 1;
                 y1 = (y1 + 1a - 1) \% 1000000000 + 1;
119
120
                 if (x0 > x1) {
121
                     int t = x0;
122
                     x0 = x1; x1 = t;
123
                     t = y0;
124
                     y0 = y1; y1 = t;
125
                 if (x0 == x1) {
126
127
                     if (y1 > y0) y0 = y1;
128
                     if (y0 > ma[x0]) {
129
                         ma[x0] = y0;
130
                         wz[x0] = m;
                     }
131
132
133
                 insert(1, 1, 39989, x0, x1, line(x0, y0, x1, y1, m));
134
135
136
        return 0;
137 }
```