

AppData\Local\Temp\23f66a62-4a69-445c-bf90-3707808c21b0_OSAP_003_7_최종보고서(소스코드 포함).zip.1b0\src\main.cc

```
1  /*
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23
24 작성자: 류남경, 이현진, 임시영, 장태환
25 작성일(파일 생성일): 2024-11-12
26 작성일(파일 최종 수정일): 2024-12-17
27 */
28
29 #include <iostream>
30
31 #include "../base/extended_set.h"
32
33 Set s;
34
35 int main() {
36     std::ios_base::sync_with_stdio(0);
37     std::cin.tie(0);
38     std::cout.tie(0);
39
40     int T;
41     std::cin >> T;
42
43     while (T--) {
44         int Q;
45         std::cin >> Q;
46
47         s.Clear();
48
49         while (Q--) {
50             std::string cmd;
51             std::cin >> cmd;
```

```
52
53     if (cmd == "Empty") {
54         std::cout << ((s.Empty()) ? 1 : 0) << "\n";
55         continue;
56     }
57     if (cmd == "Size") {
58         std::cout << s.Size() << "\n";
59         continue;
60     }
61     if (cmd == "Height") {
62         std::cout << s.Height() << "\n";
63         continue;
64     }
65     if (cmd == "Find") {
66         int x;
67         std::cin >> x;
68         std::cout << s.Find(x) << "\n";
69         continue;
70     }
71     if (cmd == "Average") {
72         int x;
73         std::cin >> x;
74         std::cout << s.Average(x) << "\n";
75         continue;
76     }
77     if (cmd == "Ancestor") {
78         int x;
79         std::cin >> x;
80         std::cout << s.Ancestor(x).first << " " << s.Ancestor(x).second << "\n";
81         continue;
82     }
83     if (cmd == "Insert") {
84         int x;
85         std::cin >> x;
86         s.Insert(x);
87         continue;
88     }
89     if (cmd == "Erase") {
90         int x;
91         std::cin >> x;
92         s.Erase(x);
93         continue;
94     }
95     if (cmd == "Rank") {
96         int x;
97         std::cin >> x;
98         std::pair<int, int> tmp = s.Rank(x);
99         std::cout << tmp.first << " ";
100        if (tmp.second != 0) {
101            std::cout << tmp.second;
102        }
103        std::cout << "\n";
104        continue;
105    }
```

```
106     }  
107 }  
108 return 0;  
109 }
```