```
class Element {
            public String nume;
            public boolean ascuns;
            public Element(String nume) {
            this.nume = nume;
            ascuns = false;
            }
            public void setAscuns(boolean ascuns) {
            this.ascuns = ascuns;
            }
            public boolean esteAscuns() {
            return ascuns;
            }
            public String getNume() {
            return nume;
            }
        }

class Lista extends Element{
    private ArrayList<Element> elemente;
    public Lista(String nume) {
    super(nume);
    elemente = new ArrayList<Element>();
    }
    public void adauga(Element element) {
    elemente.add(element);
    }
    public int lungime() {
    int contor = 0;
    for (Element element : elemente)
        if (!element.esteAscuns())
        contor++;
    return contor;
    }
    public Element get(int index) {
    return elemente.get(index);
    }
    public int dimensiune() {
    return elemente.size();
    }
}

public class Solution {
    Map<String,Element> registru = new HashMap<>();

    public static void main(String[] args) {
        Solution sol = new Solution();
        Lista A = sol.init();
        sol.queries(A);
    }

    public void adaugaElem(Lista A, String elemName) {
        Element x = new Element(elemName);
        A.adauga(x);
        registru.put(elemName, x);
    }
```

```
    public Lista init() {
        Lista A = new Lista("A"); registru.put("A", A);
        adaugaElem(A, "a1");
        adaugaElem(A, "a2");

        Lista E = new Lista("E"); registru.put("E", E);
        adaugaElem(E, "e1");
        adaugaElem(E, "e2");
        adaugaElem(E, "e3");
        adaugaElem(E, "e4");
        adaugaElem(E, "e5");
        adaugaElem(E, "e6");
        A.adauga(E);

        adaugaElem(A, "a3");

        Lista F = new Lista("F"); registru.put("F", F);
        adaugaElem(F, "f1");
        adaugaElem(F, "f2");
        A.adauga(F);
        return A;
    }
    public void queries(Lista A) {
        Scanner scanner = new Scanner(System.in);
        try{
            while (scanner.hasNextLine()) {
                String line = scanner.nextLine().trim();
                char op = line.charAt(0);
                String elemname = line.substring(1).trim();
                Element elem = registru.get(elemname);
                if (elem == null) {
                    System.out.println("Element "+elemname+" nu a fost definit");
                    continue;
                }
                switch (op) {
                    case '-':
                        elem.setAscuns(true);
                        break;
                    case '+':
                        elem.setAscuns(false);
                        break;
                    case '?':
                        if (!(elem instanceof Lista)) {
                            System.out.println("Element "+elemname+" nu este o lista");
                            continue;
                        } else {
                            Lista lst = (Lista) elem;
                            System.out.println(elemname + ": lungime="+lst.lungime()+"
dimensiune="+lst.dimensiune());
                        }
                }
            }
        }
        catch(Exception e) {
            System.out.println(e);
         }
}}
```