

```
Node{
    String name
    Node next}
```

```
Procedure findIndex (name,n):
    index=0
    For i=1 to name.length:
        If name[i]>='a' and name[i]<='z':
            index=index+(name[i]-'a'+1)*(3^(i-1))
        Else:
            index=index+(name[i]-'A'+1)*(3^(i-1))
    Return index%n
```

```
Procedure createNode(s):
    Node x
    x.name=s
    x.next=NIL
    Return x
```

```
Procedure insert(h,n,name):
    id=findIndex(name,n)
    Node x=createNode(name)
    Node s=h[id]
    x.next=s
    h[id]=x
    Return
```

```
Procedure Delete(h,n,name)
    id=findIndex(name,n)
    Node s=h[id]
    Node prev=NIL
    While s.name!=name:
        prev=s
        s=s.next
    If prev==NIL:
        h[id]=NIL
    prev.next=s.next
    Return
```

```
Procedure check(h,n):
    For i=1 to n:
        If h[i]!=NIL and h[i].next!=NIL:
            Return -1
    Return 1
```

Procedure main:

Read n

node h[n]

While True:

Read c

Switch c:

Case i:

Read name

Insert (h,n,name)

Case d:

Read name

delete(h,n,name)

Case p

ans=check (h,n)

Print ans

Case t:

exit(0)