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#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <set>
#include <algorithm>
using namespace std;

int main() {
    int Q;
    cin>>Q;

    set<int>s;
    for (int i=0;i<Q;i++)
    {
        int type;
        int current;
        cin>>type>>current;

        if (type==1)
        {
            s.insert(current);
        }
        else if (type==2)
        {
            s.erase(current);
        }
        else
        {
            set<int>::iterator itr=s.find(current);
            if (itr==s.end())
            {
                cout<<"No"<<endl;
            }
            else
            {
                cout<<"Yes"<<endl;
            }
        }
    }
}
```

```
        }

    }

}

//int length=s.size();

/* Enter your code here. Read input from STDIN. Print output to
STDOUT */
return 0;
}
```