

```
n = int(input())

elements = set()

for _ in range(n):
    query_type, num = map(int, input().split())

    if query_type == 1:
        elements.add(num)
    elif query_type == 2:
        elements.discard(num)
    elif query_type == 3:
        if num in elements:
            print("Yes")
        else:
            print("No")
```