# Enter your code here. Read input from STDIN. Print output to STDOUT

len\_set = int(input())

storage = set(map(int,input().split()))

op\_len = int(input())

for i in range(op\_len):

    operation = input().split()

    if operation[0] == 'intersection\_update':

        temp\_storage = set(map(int,input().split()))

        storage.intersection\_update(temp\_storage)

    elif operation[0]== 'update':

        temp\_storage = set(map(int,input().split()))

        storage.update(temp\_storage)

    elif operation[0] == 'symmetric\_difference\_update':

        temp\_storage = set(map(int,input().split()))

        storage.symmetric\_difference\_update(temp\_storage)

    elif operation[0] == 'difference\_update':

        temp\_storage = set(map(int,input().split()))

        storage.difference\_update(temp\_storage)

    else:

        assert False

print(sum(storage))