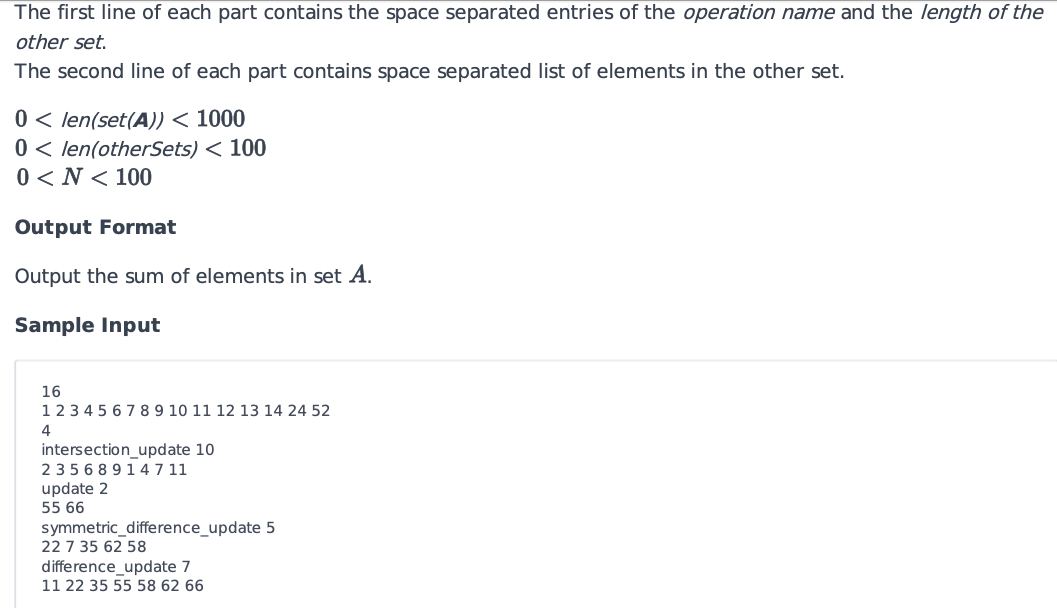
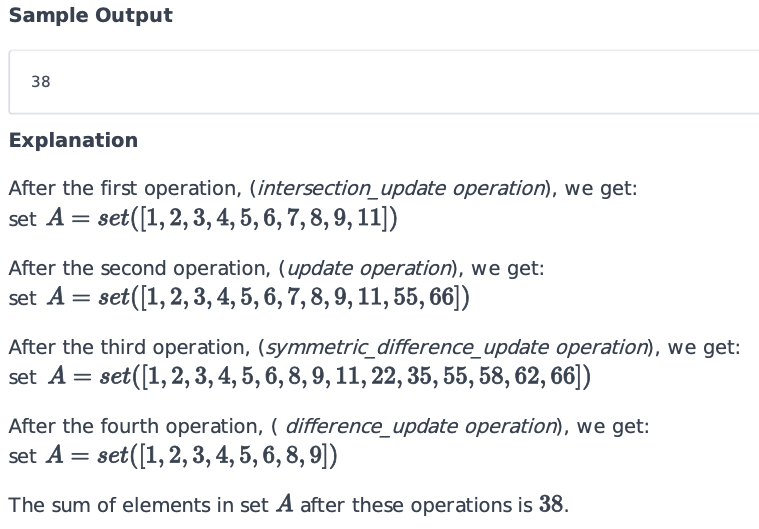
## Problem







## Solution

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

\_ = int(input())

s1 = set(map(int, input().split()))

N = int(input())

for \_ in range(N):

    cmd, \_ = input().split()

    s2 = set(map(int, input().split()))

    if(cmd == "intersection\_update"):

        s1.intersection\_update(s2)

    elif(cmd == "update"):

        s1.update(s2)

    elif(cmd == "symmetric\_difference\_update"):

        s1.symmetric\_difference\_update(s2)

    elif(cmd == "difference\_update"):

        s1.difference\_update(s2)

print(sum(s1))