items = []  
cart = dict()  
prices = dict()  
  
while 1:  
 choice = input()  
 choice = choice.split()  
 if choice[0] == "END":  
 break  
 if choice[1] == "SM":  
 if choice[2] == "ADD":  
 for i in range(int(choice[4])):  
 items.append(choice[3])  
 print(choice[4])  
  
 if choice[2] == "REMOVE":  
 if choice[2] not in items:  
 print("-1")  
 else:  
 for i in items:  
 if i == choice[2]:  
 items.remove(i)  
 print(1)  
  
 if choice[2] == "GET\_QTY":  
 cnt = 0  
 if choice[3] not in items:  
 print(0)  
 else:  
 for i in items:  
 if i == choice[3]:  
 cnt += 1  
 print(cnt)  
  
 if choice[2] == "INCR":  
 if choice[3] not in items:  
 print("-1")  
 else:  
 for i in range(0, int(choice[4])):  
 items.append(choice[3])  
 print(int(choice[4]))  
  
 if choice[2] == "DCR":  
 cnt = 0  
 if choice[3] not in items:  
 print("-1")  
 for i in items:  
 if i == choice[3]:  
 cnt += 1  
 if cnt < int(choice[4]):  
 print("-1")  
 else:  
 for i in range(0, int(choice[4])):  
 if items[i] == choice[3]:  
 items.remove(choice[3])  
 print(int(choice[4]))  
  
 if choice[2] == "SET\_COST":  
 prices[choice[3]] = choice[4]  
 print(float(choice[4]))  
  
 if choice[1] == "S":  
 if choice[2] == "ADD":  
 if choice[3] in items:  
 cart[(choice[3])] = choice[4]  
 print(choice[4])  
 else:  
 print("-1")  
  
 if choice[2] == "REMOVE":  
 if choice[2] not in cart:  
 print("-1")  
 else:  
 for i in cart:  
 if i == choice[2]:  
 cart.pop(i)  
 print(1)  
  
 if choice[2] == "INCR":  
 if choice[3] not in cart:  
 print("-1")  
 else:  
 for i in range(0, int(choice[4])):  
 cart[(choice[3])] = choice[4]  
 print(int(choice[4]))  
  
 if choice[2] == "DCR":  
 cnt = 0  
 if choice[3] not in cart:  
 print("-1")  
 for i in cart:  
 if i == choice[3]:  
 cnt += 1  
 if cnt < int(choice[4]):  
 print("-1")  
 else:  
 for i in range(0, int(choice[4])):  
 if cart[i] == choice[3]:  
 cart.pop(choice[3])  
 print(int(choice[4]))  
  
 if choice[2] == "GET\_ORDER\_AMOUNT":  
 total = 0  
 for i in cart:  
 total += int(prices[i])  
 print(float(total))