## **DBL**



### **Description**

Bagas is a professional basketball player, especially at dribbling. After finishing his final match, he found out that the score was rigged by the referee. Since Bagas knows that you are a well-known programmer, he wants you to check the total score that is rigged.

Given the following commands, find out the total score that is manipulated

- add N: Record a new score of N
- dbl: Record a new score that is the double of the previous score
- six: Record a new score that is the sum of the previous score plus 6
- del: Invalidate the previous score, removing it from the record
- total: Calculate the sum of all scores

## **Input Format**

- The first line contains the number of test cases which is T
- The next **T** lines contain the **command (string)** and **N (integer)**

## **Output Format**

Print the sum of all the scores on the record after applying all the operations.

#### **Constraints**

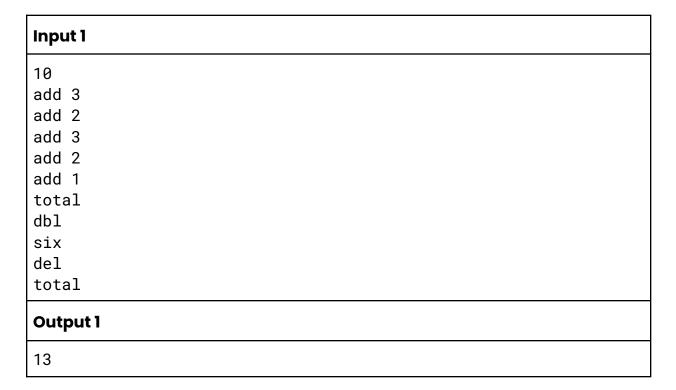
- $-0 < T \le 100$
- $0 < N \le 100$
- 1 < command ≤ 100

## Example

Input 0	
7	
add 3	
add 3	
add 2	
add 1	
dbl	
six	
total	
Output 0	
19	

# **Explanation 0**

- add 3, 3, 2 and 1 to the stack. The initial stack will be 1 2 3 3
- dbl : Double the top of the stack. The stack will be 2 1 2 3 3
- six: Add 6 to the top element. The stack will be 8 2 1 2 3 3
- total : Calculate the sum = 19



## **Explanation 1**

- add 3, 2, 3, 2 and 1 to the stack. The initial stack will be 1 2 3 2 3
- total: Calculate the sum = 11
- dbl: Double the top element. The stack will be 2 1 2 3 2 3
- six: add 6 to the top element. The stack will be 8 2 1 2 3 2 3
- del: Delete the top element. The stack will be 2 1 2 3 2 3
- total: Calculate the sum = 13