

## 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

- $0 < T \leq 100$
- $0 < N \leq 100$
- $1 < \text{command} \leq 100$

### 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

Input 1
10 add 3 add 2 add 3 add 2 add 1 total dbl six del total
Output 1
13

### **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