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The Virtual Learning Environment for Computer Programming

#### **Collection of numbers**

P50709\_en

Write a program to keep a collection of integer numbers, perhaps with repetitions, while performing the following operations:

- 's' x: Stores a copy of the given number x.
- 'A': Asks for the greatest number.
- 'R': Removes the greatest number (one of them, if it is repeated).
- 'I' x: Increases the greatest number (one of them, if it is repeated) in x units.
- 'D' x: Decreases the greatest number (one of them, if it is repeated) in x units.

### Input

Input consists of several operations.

## Output

For every query, the current greatest number. Print also an error line for each operation (except storing) when the collection is empty.

Sample input		Sample output
A		error!
S 10	A	10
S-7	A	10
S 20	A	20
I 3	A	23
D 15	A	10
R	A	8
S 30	A	30
D 37	R A	-7
R	A	-7
R	I 1	error!
A		error!
R		error!
D 3		error!
S 4	A	4

#### **Problem information**

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