

## Sum or subtract numbers from an input list

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Given a list of  $n$  integers  $v_0, \dots, v_{n-1}$ , and a string  $s$  of length  $n$  and with characters '+' and '-', we need to print the result of summing or subtracting each  $v_i$  depending on whether the  $i$ 'th character of  $s$  is '+' or '-'.

### Input

The input begins with a positive natural number  $n$  on a first line. On a second line there are  $n$  integers  $v_0, \dots, v_n$ . Afterwards, there's a sequence of lines, each with a string  $s$  of length  $n$  and characters '+' or '-'.

### Output

For each string  $s$ , the program has to print  $(\sum_{i \in \{0 \dots n-1\} \wedge s[i] = '+'} v_i) - (\sum_{i \in \{0 \dots n-1\} \wedge s[i] = '-'} v_i)$

#### Sample input 1

```
8
-15 16 -20 3 -13 -1 -14 12
++++-++-
-----+-+
-----++-
--+++-+-
++++-+--
+-+--++-
-----++-
-+++++-+
-+++++-+
+-----++
-+++++-+
-----+--
++++-+--
+-----+-+
-+++++-+
+++++++-
+++--++-
-+-+--+-
++----+-
-+-+----
+----+-+
```

#### Sample output 1

```
10
2
-18
-56
-2
-40
34
66
42
-2
36
12
-32
4
-2
-10
46
56
64
-52
```

### Problem information

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