The Virtual Learning Environment for Computer Programming

Sum or subtract numbers from an input list

X34211_en

Given a list of n integers v_0, \ldots, 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, \ldots, 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 $(\sum_{i \in \{0...n-1\} \land s[i]='+'} v_i) - (\sum_{i \in \{0...n-1\} \land s[i]='-'} v_i)$

Sample input

Sample input
8
-15 16 -20 3 -13 -1 -14 12
++-+-+-
++
+++-
++
++++-+
+-+-+
++-+
-+-++-+
-+-+
+++
-++-
+
+++-+
+++-+
-+++++
+++-++-+
-+++
+++
-+-+++
++-

Sample output

-18 -56 -2 -4034 66 42 36 12 -32-2 -10 46 56 64 -52

Problem information

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