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Number System Situation (14pts)

Sachin Sir is teaching students how numbers can be represented in alternate number systems. He assigns them a problem that involves finding the sum of the given numbers in denary. The numbers are given in number systems ranging from **base-1** all the way up to **base-16**. There are several lines of input, each containing the sign, a base number, and the number to be converted. Your program must take the numbers and output their denary sum.

Example

```
+ 1 1111
- 2 100
+ 10 115
- 16 F
- 1 11111
- 5 10
```

The above input evaluates to **(+4) + (-4) + (+115) + (-15) + (-5) + (-5)** which equals **90**.

Additional Info

1. You can assume each number is in the correct base. For example, lines like **+ 2 123** will never exist.
2. Each line has the sign, the base and then the number separated by a space
3. The base is a number between **1** and **16**, inclusive on both ends, i.e. **[1,16]**
4. The sum of these numbers can be stored in an unsigned **64** bit integer

Resources

[Number base - Brilliant](#)

[Get Input](#)[Answer](#)[Submit](#)