Some Sums

Input file:	standard input
Output file:	standard output
Time limit:	2 seconds
Memory limit:	256 megabytes

Given three numbers N, A, B. Print the **summation** of the numbers between **1** and N whose **sum** of digits is between A and B **inclusive**.

Input

Only one line containing three numbers N, A, B ($1 \le N \le 10^4, 1 \le A \le B \le 36$).

Output

Print a single line contains the answer according to the required above.

Examples

standard input	standard output
20 2 5	84
10 1 2	13
100 4 16	4554

Note

In the first simple:

Among the numbers not greater than **20**, the numbers whose sums of digits are between **2** and **5**, are: **2,3,4,5,11,12,13,14** and **20**.

So the answer is: **84**.