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E. Lucky Array

time limit per test: 4 seconds memory limit per test: 256 megabytes

Petya loves lucky numbers. Everybody knows that lucky numbers are positive integers whose decimal representation contains only the lucky digits 4 and 7. For example, numbers 47, 744, 4 are lucky and 5, 17, 467 are not.

Petya has an array consisting of \emph{n} numbers. He wants to perform \emph{m} operations of two types:

- add l r d add an integer d to all elements whose indexes belong to the interval from l to r, inclusive $(1 \le l \le r \le n, 1 \le d \le 10^4)$;
- $\underline{\text{count } l \ r}$ find and print on the screen how many lucky numbers there are among elements with indexes that belong to the interval from l to r inclusive $(1 \le l \le r \le n)$. Each lucky number should be counted as many times as it appears in the interval.

Petya has a list of all operations. The operations are such that after all additions the array won't have numbers that would exceed 10^4 . Help Petya write a program that would perform these operations.

Input

The first line contains two integers n and m ($1 \le n, m \le 10^5$) — the number of numbers in the array and the number of operations correspondingly. The second line contains n positive integers, none of which exceeds 10^4 — those are the array numbers. Next m lines contain operations, one per line. They correspond to the description given in the statement.

It is guaranteed that after all operations are fulfilled each number in the array will not exceed 10^4 .

Output

For each operation of the second type print the single number on the single line — the number of lucky numbers in the corresponding interval.

Examples

Сору

input	Сору
4 5	
4 4 4 4	
count 1 4	
add 1 4 3	
count 1 4	
add 2 3 40	
count 1 4	
output	Сору
4	
4	
4	

Note

In the first sample after the first addition the array will look in the following manner:

4 5 6

After the second addition:

4 8 9

The second sample after the first addition:

7 7 7 7

After the second addition:

7 47 47 7

→ Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

Codeforces Beta Round 91 (Div. 1 Only)

Finished

Practice



→ Virtual participation

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Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win ➤

Choose

Choose File No file chosen

Vordict

Submit

→ Last submissions

Submission	Time	Verdict
278281137	Aug/26/2024 18:51	Accepted
278280848	Aug/26/2024 18:49	Wrong answer on test 1
278280698	Aug/26/2024 18:48	Wrong answer on test 1
278280073	Aug/26/2024 18:43	Accepted
278279952	Aug/26/2024 18:42	Runtime error on test 1
278279648	Aug/26/2024 18:40	Time limit exceeded on test 62
<u>278277076</u>	Aug/26/2024 18:19	Time limit exceeded on test 14
278276667	Aug/26/2024 18:16	Wrong answer on test 3
278273765	Aug/26/2024 17:54	Wrong answer on test 10
278273020	Aug/26/2024 17:49	Wrong answer on test 10

→ Problem tags

data structures *2400

No tag edit access

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• Ahohc (ru)	×				
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• Разбор задач (ru)	×				

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