

## B. Messages

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

There are  $n$  incoming messages for Vasya. The  $i$ -th message is going to be received after  $t_i$  minutes. Each message has a cost, which equals to  $A$  initially. After being received, the cost of a message decreases by  $B$  each minute (it can become negative). Vasya can read any message after receiving it at any moment of time. After reading the message, Vasya's bank account receives the current cost of this message. Initially, Vasya's bank account is at 0.

Also, each minute Vasya's bank account receives  $C \cdot k$ , where  $k$  is the amount of received but unread messages.

Vasya's messages are very important to him, and because of that he wants to have all messages read after  $T$  minutes.

Determine the maximum amount of money Vasya's bank account can hold after  $T$  minutes.

### Input

The first line contains five integers  $n, A, B, C$  and  $T$  ( $1 \leq n, A, B, C, T \leq 1000$ ).

The second string contains  $n$  integers  $t_i$  ( $1 \leq t_i \leq T$ ).

### Output

Output one integer — the answer to the problem.

### Examples

### **Tinkoff Internship Warmup Round 2018 and Codeforces Round #475 (Div. 2)**

**Finished**

Practice



### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

### → Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

<b>input</b>	<a href="#">Copy</a>
4 5 5 3 5 1 5 5 4	
<b>output</b>	<a href="#">Copy</a>
20	

<b>input</b>	<a href="#">Copy</a>
5 3 1 1 3 2 2 2 1 1	
<b>output</b>	<a href="#">Copy</a>
15	

<b>input</b>	<a href="#">Copy</a>
5 5 3 4 5 1 2 3 4 5	
<b>output</b>	<a href="#">Copy</a>
35	

### Note

In the first sample the messages must be read immediately after receiving, Vasya receives  $A$  points for each message,  $n \cdot A = 20$  in total.

In the second sample the messages can be read at any integer moment.

In the third sample messages must be read at the moment  $T$ . This way Vasya has 1, 2, 3, 4 and 0 unread messages at the corresponding minutes, he gets 40 points for them. When reading messages, he receives  $(5 - 4 \cdot 3) + (5 - 3 \cdot 3) + (5 - 2 \cdot 3) + (5 - 1 \cdot 3) + 5 = -5$  points. This is 35 in total.

### → Clone Contest to Mashup

You can clone this contest to a mashup.

[Clone Contest](#)

### → Submit?

Language: GNU G++14 6.4.0

Choose file: [Choose File](#) No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

[Submit](#)

### → Problem tags

No tags yet

No tag edit access

### → Contest materials

- Announcement