

Problem 10071

Problem B

Back to High School Physics

Input: standard input

Output: standard output

A particle has initial velocity and constant acceleration. If its velocity after certain time is v then what will its displacement be in twice of that time?

Input

The input will contain two integers in each line. Each line makes one set of input. These two integers denote the value of v ($-100 \leq v \leq 100$) and t ($0 \leq t \leq 200$) (t means at the time the particle gains that velocity)

Output

For each line of input print a single integer in one line denoting the displacement in double of that time.

Sample Input

```
0 0
5 12
```

Sample Output

```
0
120
```

Problem 458

The Decoder

Write a complete program that will correctly decode a set of characters into a valid message. Your program should read a given file of a simple coded set of characters and print the exact message that the characters contain. The code key for this simple coding is a one for one character substitution based upon a *single arithmetic manipulation* of the printable portion of the ASCII character set.

Input and Output

For example: with the input file that contains:

```
1JKJ'pz' {ol' {yhklthyr'vm' {ol' Jvu{yvs'Kh{h' Jvywvyh{pvu5
1PIT'pz'h' {yhklthyr'vm' {ol' Pu{lyuh{pvuhs'I|zpulzz'Thjopul' Jvywvyh{pvu5
1KLJ'pz' {ol' {yhklthyr'vm' {ol' Kpnp{hs'Lx|pwtlu{ 'Jvywvyh{pvu5
```

your program should print the message:

```
*CDC is the trademark of the Control Data Corporation.
*IBM is a trademark of the International Business Machine Corporation.
*DEC is the trademark of the Digital Equipment Corporation.
```

Your program should accept all sets of characters that use the same encoding scheme and should print the actual message of each set of characters.

Sample Input

```
1JKJ'pz' {ol' {yhklthyr'vm' {ol' Jvu{yvs'Kh{h' Jvywvyh{pvu5
1PIT'pz'h' {yhklthyr'vm' {ol' Pu{lyuh{pvuhs'I|zpulzz'Thjopul' Jvywvyh{pvu5
1KLJ'pz' {ol' {yhklthyr'vm' {ol' Kpnp{hs'Lx|pwtlu{ 'Jvywvyh{pvu5
```

Sample Output

```
*CDC is the trademark of the Control Data Corporation.
*IBM is a trademark of the International Business Machine Corporation.
*DEC is the trademark of the Digital Equipment Corporation.
```

Problem 10300

Problem A Ecological Premium

Input: standard input **Output:** standard output

Time Limit: 1 second **Memory Limit:** 32 MB

German farmers are given a premium depending on the conditions at their farmyard. Imagine the following simplified regulation: you know the size of each farmer's farmyard in square meters and the number of animals living at it. We won't make a difference between different animals, although this is far from reality. Moreover you have information about the degree the farmer uses environment-friendly equipment and practices, expressed in a single integer greater than zero. The amount of money a farmer receives can be calculated from these parameters as follows. First you need the space a single animal occupies at an average. This value (in square meters) is then multiplied by the parameter that stands for the farmer's environment-friendliness, resulting in the premium a farmer is paid per animal he owns. To compute the final premium of a farmer just multiply this premium per animal with the number of animals the farmer owns.

Input

The first line of input contains a single positive integer n ($n < 20$), the number of test cases. Each test case starts with a line containing a single integer f ($0 < f < 20$), the number of farmers in the test case. This line is followed by one line per farmer containing three positive integers each: the size of the farmyard in square meters, the number of animals he owns and the integer value that expresses the farmer's environment-friendliness. Input is terminated by end of file. No integer in the input is greater than **100000** or less than **0**.

Output

For each test case output one line containing a single integer that holds the summed burden for Germany's budget, which will always be a whole number. Do not output any blank lines.

Sample Input

```
3
5
1 1 1
2 2 2
3 3 3
2 3 4
8 9 2
3
9 1 8
6 12 1
8 1 1
3
10 30 40
9 8 5
100 1000 70
```

Sample Output

```
38
86
7445
```