



My tests



Programming
Aptitude Test

A Problem A

B Problem B

C Problem C



Help

PROBLEM A

Bill and Ted are taking a road trip. But the odometer in their car is broken, so they don't know how many miles they have driven. Fortunately, Bill has a working stopwatch, so they can record their speed and the total time they have driven. Unfortunately, their record keeping strategy is a little odd, so they need help computing the total distance driven. You are to write a program to do this computation.

For example, if their log shows

Speed in miles per hour	Total elapsed time in hours
20	2
30	6
10	7

this means they drove 2 hours at 20 miles per hour, then $6 - 2 = 4$ hours at 30 miles per hour, then $7 - 6 = 1$ hour at 10 miles per hour. The distance driven is then $2 \cdot 20 + 4 \cdot 30 + 1 \cdot 10 = 40 + 120 + 10 = 170$ miles. Note that the total elapsed time is always since the beginning of the trip, not since the previous entry in their log.

Input

The input consists of one or more data sets (at most 10). Each set starts with a line containing an integer n , $1 \leq n \leq 10$, followed by n pairs of values, one pair per line. The first value in a pair, s , is the speed in miles per hour and the second value, t , is the total elapsed time. Both s and t are integers, $1 \leq s \leq 90$ and $1 \leq t \leq 12$. The values for t are always in strictly increasing order. A value of -1 for n signals the end of the input.

Output

For each input set, print the distance driven, followed by a



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Time remaining:

1d 23h

EYUEL BELAY



```
3
20 2
30 6
10 7
2
60 1
30 5
4
15 1
25 2
30 3
10 5
-1
```

```
170 miles
180 miles
90 miles
```

CPU Time limit

1 second

Memory limit

1024 MB

Downloads

[Sample data files](#)

Author

John Cigas



Select your programming language and start writing your code.

Choose language



Help

Start coding