

139 Telephone Tangles

A large company wishes to monitor the cost of phone calls made by its personnel. To achieve this the PABX logs, for each call, the number called (a string of up to 15 digits) and the duration in minutes. Write a program to process this data and produce a report specifying each call and its cost, based on standard Telecom charges.

International (IDD) numbers start with two zeroes (00) followed by a country code (1–3 digits) followed by a subscriber’s number (4–10 digits). National (STD) calls start with one zero (0) followed by an area code (1–5 digits) followed by the subscriber’s number (4–7 digits). The price of a call is determined by its destination and its duration. Local calls start with any digit other than 0 and are free.

Input

Input will be in two parts. The first part will be a table of IDD and STD codes, localities and prices as follows:

Code△Locality name\$price in cents per minute

where △ represents a space. Locality names are 25 characters or less. This section is terminated by a line containing 6 zeroes (000000).

The second part contains the log and will consist of a series of lines, one for each call, containing the number dialled and the duration. The file will be terminated a line containing a single #. The numbers will not necessarily be tabulated, although there will be at least one space between them. Telephone numbers will not be ambiguous.

Output

Output will consist of the called number, the country or area called, the subscriber’s number, the duration, the cost per minute and the total cost of the call, as shown below. Local calls are costed at zero. If the number has an invalid code, list the area as “Unknown” and the cost as −1.00.

Sample input

```
088925 Broadwood$81
03 Arrowtown$38
0061 Australia$140
000000
031526          22
0061853279    3
0889256287213 122
779760 1
002832769 5
#
```

Sample output

<u>1</u>	<u>17</u>	<u>51</u>	<u>56</u>	<u>62</u>	<u>69</u>
031526	Arrowtown	1526	22	0.38	8.36
0061853279	Australia	853279	3	1.40	4.20
0889256287213	Broadwood	6287213	122	0.81	98.82
779760	Local	779670	1	0.00	0.00
002832769	Unknown		5		-1.00