**N** customers are waiting in line at a cashier in Auchan. Each one has **X** rubles and spends **Y** seconds at the cashier.

Compute how much money a cashier has at each different time **T** (first line of the input).   
Money is being considered as belonging to the cashier the moment exactly **Y** seconds pass for each customer.

|  |  |
| --- | --- |
| input.dat | output.dat |
| 10 20 50 100 200 400  Lev 5 10  Fyodor 10000 5  Vladimir 10 30  Maxim 50 100  Ivan 20 4 | After 10 seconds: 5  After 20 seconds: 10005  After 50 seconds: 10015  After 100 seconds: 10015  After 200 seconds: 10069  After 400 seconds: 10069 |