## Problem 1 – Electricity

In the "Students Town" each flat in the dorms has **8 lamps, each consuming 100.53 Watts** (2 in the kitchen, 3 in the living-room, 1 in the bathroom, 1 in the bedroom and 1 in the lumber-room). Additionally each flat has **8 computers, each consuming 125.90 Watts** (1 in the kitchen, 2 in the living-room, 1 in the bathroom, 3 in the bedroom and 1 in the lumber-room). The lamps and computers in each flat always operate in a strict schedule every day:

* From 14:00 to 18:59 🡪 2 lamps + 2 computers are running
* From 19:00 to 23:59 🡪 7 lamps + 6 computers are running
* From 00:00 to 08:59 🡪 1 lamp + 8 computers are running

Write a program to calculate **how many Watts is the total power consumption** of the dorms at given **time** of the day. You will be given the number of **floors** in the dorms and the **number of flats** at each floor that operate in the specified time.

### Input

The input data should be read from the console. It consists of exactly 3 lines:

* The first line holds the number of floors – **floors**.
* The second line holds the number of flats at each floor – **flats**.
* The third line holds the time of the day in format **hh:mm** – **time**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

Print at the console the total power consumption in format "**X Watts**" where **X** is the total power consumption. Truncate down the result to the nearest **whole number**.

### Constraints

* The number **floors** is a positive integer in the range [1…30].
* The number **flats** is a positive integer in the range [1…222].
* The hours **hh** is a positive integer in the range [0…23]. It might have a leading zero, e.g. "09".
* The minutes **mm** is a positive integer in the range [0…59]. It might have a leading zero, e.g. "00".
* Allowed working time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

### Examples

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 3  40  18:00 | 54343 Watts | 24  120  16:25 | 1304236 Watts | 30  222  19:30 | 9717672 Watts | 2  76  9:00 | 0 Watts |