

Leia, Luke, Han and Chewie are trapped in the Garbage Masher on the detention level of the Death Star, and the masher's walls are coming in!

Luke must call R2-D2 and C-3PO for help! The walls move in at 60cm per minute. The walls start 5 meters apart. You need to figure out if everyone makes it out of the masher or disaster strikes. There must be at least 20cm remaining between the walls for everyone to make it out a little thinner, but okay.

It will take C-3PO 40 seconds to successfully tell R2-D2 to shut down the correct Garbage Masher. May The Force Be With You!



## Input

You will receive 2 sets of data on one (and only one) line in your input. The data will be the time (HH:MM:SS in 24 hour notation) the walls started moving, a space, then the time Luke remembers his communicator and calls the droids for help. You are guaranteed that none of the input times will roll over to the next day (e.g. you won't see input like this: 23:59:19 00:10:16)

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13:05:01 13:07:08
```

## Output

Your program must output 3 pieces of information:

1. The remaining space between the walls (in meters, rounded to 2 decimal places)
2. A schematic of the walls as a digital rendering (for the Imperial archives, of course). Use the pipe symbol ( | ) to represent the walls in your digital rendering (one pipe symbol is roughly equal to 2 meters in height, and the walls of the masher are 12 meters tall. It also just so happens that 1 period (.) character on a screen is equal to 20cm. The Emperor was obviously planning ahead. The walls will start 5 meters apart. In your digital rendering show how close the walls are when the droids will have stopped them (rounded down to the nearest 20cm increment (e.g. if there would be 25cm left, output one period, if there would be 1m 19cm left, output 5 periods)).
3. If there will be less than 20cm of space between the walls when they stop, print on a new line: CURSE MY METAL BODY, I WASN'T FAST ENOUGH! If there are **exactly** 20cm remaining between the walls, print on a new line: THIS IS SOME RESCUE! Else, print: THE FORCE WAS WITH YOU

```
3.33
|               |
|               |
|               |
|               |
|               |
|.....|
THE FORCE WAS WITH YOU
```

## Discussion

2 minutes, 7 seconds elapse from when the walls start moving until Luke remembers to call. At 60cm/minute that costs them 127cm. The 40 seconds the droids take to act costs an additional 40cm. This brings the walls in a total of 167cm, or 1.67 meters. Subtracting 167cm from the initial 500cm (5m) wall separation gives 333cm, or 3.33m. Rounding down to 320cm, you must print 16 period characters in your digital rendering for the Imperial archives (remember to round **down** to the nearest 20cm!). (Note, the walls will stop at zero, the distance between them cannot go negative.)

Reminder: have you run your solution against **all** of the student data sets?

## Additional Examples

| Input 1           | Output 1   | Input 2           | Output 2   |
|-------------------|--|-------------------|--|
| 08:59:05 09:09:59 | 0.00<br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>CURSE MY METAL BODY, I WASN'T FAST ENOUGH! | 22:20:00 22:27:20 | 0.20<br>   <br>   <br>   <br>   <br>   <br>   <br> .  <br>THIS IS SOME RESCUE! |