You amble over to the arena's scoreboard, where the event coordinators are trying to measure the power used by the clock. The clock uses four seven-segment LEDs to display the hours and the minutes. For example, as you can see in the image below, the number 1 requires lighting two segments, and the number 2 requires lighting five segments.

problem 3
Clock Power
4 points

Lighting a single LED segment requires 15 milliamps. There is also a divider (:) between the hours and the minutes. Lighting the divider requires 20 milliamps. The first LED for the hours portion of the clock will not be lit for hour values less than 10.

Write a program to output the number of milliamps required to light the clock for a given a time value.

Input

Input begins with a single integer T (T < 50) representing the number of time values. The following T lines will contain a single time value of the format HH:MM. The HH value will be a number from 1 to 12. There will be no leading zero for hour values less than 10. The MM value will be a number from 0 to 59. The MM value will have a leading zero for values less than 10.

```
6
1:23
10:58
12:00
3:14
1:11
7:38
```

Output

For each time value, output the number of milliamps required.

```
200 milliamps
320 milliamps
305 milliamps
185 milliamps
110 milliamps
245 milliamps
```