

Problem: paces

Difficulty: Easy – medium

In the United States, miles per hour (mph) is the most commonly used unit for speed, particularly in the context of speed limits and vehicle speeds. However, sports, such as track and cross country running, speed is measured in min/mile (mile pace). In order to train, athletes may run on treadmills or other machines that measure in mph. But runners use their mile paces for workouts, not mph. So, converting the treadmill mph to mile pace can be cumbersome and inconvenient, especially during an intense workout!

Luckily, runners have you to help them efficiently convert the speed into usable paces!

You are given an amount in mph and your task is to convert the mph to min/mile (mile pace) in the format mm:ss/1 mile, rounded to the nearest second.

- 1.0 mph = 60:00
- 5.0 mph = 12:00
- 5.5 mph = 10:55
- 10.0 mph = 6:00

Sample Input

The first line of your program's input, received from the standard input channel, will contain a positive integer $1 \leq N \leq 50$ representing the number of test cases. Each test case will include:

- A decimal value representing a mph value

5

1.0

2.0

5.0

5.5

10.0

Sample Output

For each test case, your program must output the mile pace for the corresponding mph, rounded to the nearest second. Ensure that there is a colon ":" separating the minutes from the seconds.

60:00

30:00

12:00

10:55

6:00

Commented [CY1]: Put example outputs after writing solution