2017 ACM ICPC Mid-Atlantic North America Programming Contest

Practice Round

Nov. 11, 2017

Welcome to the practice round for the 2017 ICPC Mid-Atlantic Regional.

Before you start the round, please take the time to review the **Contest Guide and Rules**, provided separately.

There is one (1) practice problem. Please submit solutions or request clarifications **for this problem only.** Unless you have a real question about the problem, please submit at most one clarification request, and at most two runs. It is important that everyone have a chance to see how the system works. Even if you do not solve the practice problem, you should submit once just to practice with the system.

Problem A: Roaming Romans

The English word "mile" derives from the Latin "mille passus", meaning "a thousand paces". A Roman mile was the distance a soldier would walk in $1\,000$ paces (a pace being two steps, one with each foot).

Over time, the actual distance referred to as a "mile" has changed. The modern English mile is $5\,280$ (modern) feet. The Roman mile is believed to have been about $4\,854$ (modern) feet. Therefore a distance of x English miles would correspond to $1\,000 \cdot \frac{5\,280}{4\,854}$ Roman paces.

Write a program to convert distances in English miles into Roman paces.

Input

Input will consist of a single line containing a single real number $0 \leq X \leq 1\,000$ denoting a distance in English miles. The number X has at most 3 digits of precision after the decimal point.

Output

Print an integer denoting the closest number of Roman paces equivalent to X. Your answer should be rounded to the closest integer (with an exact .5 decimal part rounded up).

Examples

Example 1

Sample Input

```
1.0
```

Sample Output

```
1088
```

Example 2

Sample Input

```
20.267
```

Sample Output

```
22046
```