

Problem 226: Income Tax

Difficulty: Easy

Author: Colin Seybold, Moorestown, New Jersey, United States

Originally Published: Code Quest 2024

Problem Background

You've just started your first job at Lockheed Martin! However, it's everyone's favorite time of year – tax season – and you need to figure out how much you owe.

Problem Description

Income tax is usually a percentage of your total income, with higher levels of income usually paying a larger percentage. You'll need to determine your total income tax assuming you have no deductions or withholdings (that is, nothing to subtract from what you owe). Use the tax rates shown in the following table for each test case.

Minimum Income	Maximum Income	Tax Rate (% of total income)
\$0	\$11,000	10%
\$11,001	\$44,725	12%
\$44,726	\$95,375	22%
\$95,376	\$182,100	24%
\$182,101	\$231,250	32%
\$231,251	\$578,125	35%
\$578,126 or more	N/A	37%

Sample Input

The first line of your program's input, received from the standard input channel, will contain a positive integer representing the number of test cases. Each test case will include a single line containing a positive integer representing your total annual income in dollars.

```
4  
5000  
50000  
100000  
200000
```

Sample Output

For each test case, your program must print a single line containing an integer representing the income tax you owe based upon your income. Round all values to the nearest integer using the rounding rules provided in the Reference Materials.

```
500  
11000  
24000  
64000
```