Programming Assignment-1: Formula

Due on 2020-04-16, 23:59 IST

Write a program that calculates and prints the value according to the given formula:

\[ Q = \text{Square root of } \left( \frac{2 \times C \times D}{H} \right) \]

Following are the fixed values of \( C \) and \( H \):
- \( C \) is 50.
- \( H \) is 30.

\( D \) is the variable whose values should be input to your program in a comma-separated sequence.

Input Format:
A sequence of values for \( D \) with each value separated by a comma.

Output Format:
Print the sequence of \( Q \) values with each value separated by a comma.

Example:

Input:
100,150,180

Output:
18,22,24

Sample Test Cases

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case 1</td>
<td>23, 31, 24, 53, 31</td>
<td>9, 10, 9, 13, 10</td>
</tr>
<tr>
<td>Case 2</td>
<td>91, 34, 51, 64, 23, 54, 65, 76, 2, 3, 98, 45, 76, 23, 43, 12</td>
<td>17, 11, 13, 15, 9, 13, 15, 16, 9, 18, 12, 16, 9, 12, 6</td>
</tr>
</tbody>
</table>
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```python
import math
c=50
h=30
value = []
items=[x for x in input().split(',,')]
for d in items:
    value.append(str(int(round(math.sqrt(2*c*float(d)/h)))))
print (',',join(value))
```
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