



# **Grading Students ☆**

**Problem** Submissions Leaderboard Editorial △

HackerLand University has the following grading policy:

- Every student receives a  $\it grade$  in the inclusive range from 0 to 100.
- Any *grade* less than **40** is a failing grade.

Sam is a professor at the university and likes to round each student's *grade* according to these rules:

- If the difference between the  $\it grade$  and the next multiple of  $\it 5$  is less than  $\it 3$ , round  $\it grade$  up to the next multiple of  $\it 5$ .
- If the value of *grade* is less than **38**, no rounding occurs as the result will still be a failing grade.

For example, grade = 84 will be rounded to 85 but grade = 29 will not be rounded because the rounding would result in a number that is less than 40.

Given the initial value of  $\mathit{grade}$  for each of Sam's n students, write code to automate the rounding process.

#### **Function Description**

Complete the function gradingStudents in the editor below. It should return an integer array consisting of rounded grades.

gradingStudents has the following parameter(s):

• grades: an array of integers representing grades before rounding

#### **Input Format**

The first line contains a single integer, n, the number of students.

Each line i of the n subsequent lines contains a single integer, grades[i], denoting student i's grade.

### Constraints

- $1 \le n \le 60$
- $0 \leq grades[i] \leq 100$

# **Output Format**

For each grades[i], print the rounded grade on a new line.

# Sample Input 0

4

73

67 38

33

## Sample Output 0

75

67

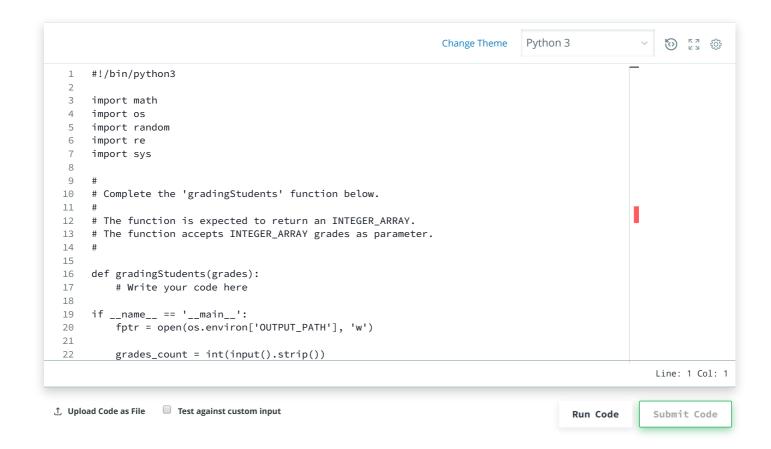
40

33

# **Explanation 0**

ID	Original Grade	Final Grade
1	73	75
2	67	67
3	38	40
4	33	33

```
Student 1 received a 73, and the next multiple of 5 from 73 is 75. Since 75 - 73 < 3, the student's grade is rounded to 75.</li>
Student 2 received a 67, and the next multiple of 5 from 67 is 70. Since 70 - 67 = 3, the grade will not be modified and the student's final grade is
Student 3 received a 38, and the next multiple of 5 from 38 is 40. Since 40 - 38 < 3, the student's grade will be rounded to 40.</li>
Student 4 received a grade below 38, so the grade will not be modified and the student's final grade is 33.
```



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