



Grading Students ☆

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Problem

Submissions

Leaderboard

Editorial

HackerLand University has the following grading policy:

- Every student receives a *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 *grade* and the next multiple of **5** is less than **3**, round *grade* up to the next multiple of **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 *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.



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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

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

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

1. 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**.
2. 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 **67**.
3. 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**.
4. 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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Python 3



```
16 def gradingStudents(grades):
17     gradeslist = []
18     ##    print(grades)
19
20     # Write your code here
21
22     for grade in grades:
23         #if grade < 40: gradeslist += [grade]
24         #else:
25         #gradeceil = int(math.floor(grade*0.2)/0.2)
26         #gradeceil = int(math.ceil(grade*0.2)/0.2)
27
28         #gradeslist += [[gradeceil, grade][gradeceil-grade < grade-gradeceil]]
29
30         if gradeceil-grade > 2 or gradeceil < 40: gradeslist += [grade]
31         else: gradeslist += [gradeceil]
32
```



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```
33         #elif grade-gradefloor < 3: gradeslist += [gradefloor]
34
35
36     return gradeslist
37
38 if __name__ == '__main__':
39     fptr = open(os.environ['OUTPUT_PATH'], 'w')
```

Line: 55 Col: 1

[Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code

You have earned 10.00 points!

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46%

146/200



Congratulations

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Compiler Message

Success

Input (stdin)

1

4

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✓ Test case 3	2	73
	3	67
✓ Test case 4	4	38
	5	33
✓ Test case 5	Expected Output	
✓ Test case 6	1	75

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