



Grading Students ★

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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.

Examples

- **grade** = **84** round to **85** (85 - 84 is less than 3)
- **grade** = **29** do not round (result is less than 38)
- **grade** = **57** do not round (60 - 57 is 3 or higher)

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** with the following parameter(s):

- **int grades[n]**: the grades before rounding

Returns

- **int[n]**: the grades after 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]**.

Constraints

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

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 **33**, so the grade will not be modified and the student's final grade is **33**.

Change Theme

Language

Python 3



```

7  import sys
8
9  #
10 # Complete the 'gradingStudents' function below.
11 #
12 # The function is expected to return an INTEGER_ARRAY.
13 # The function accepts INTEGER_ARRAY grades as parameter.
14 #
15
16 def gradingStudents(grades):
17     # Write your code here
18     # Write your code here
19     for i in range(len(grades)):
20         if grades[i] < 38:
21             continue
22
23         next_multiple = (grades[i]//5+1)*5
24         if next_multiple - grades[i] < 3:
25             grades[i] = next_multiple
26     return grades
27
28 if __name__ == '__main__':
29     fptr = open(os.environ['OUTPUT_PATH'], 'w')
30
31     grades_count = int(input().strip())
32
33     grades = []
34
35     for _ in range(grades_count):
36         grades_item = int(input().strip())
37         grades.append(grades_item)
38
39     result = gradingStudents(grades)
40
41

```

EMACS

Line: 27 Col: 5

You have earned 10.00 points!
You are now 321.2 points away from the gold level for your problem solving badge.

14%







528.8/850



Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✓ Test case 0	Compiler Message	
✓ Test case 1 	Success	
✓ Test case 2 	Input (stdin)	Download
	1 4	
✓ Test case 3 	2 73	
	3 67	
✓ Test case 4 	4 38	
	5 33	
✓ Test case 5 	Expected Output	Download
	1 75	
✓ Test case 6 	2 67	