



Your Grading Students submission got 10.00 points.

Share

Tweet

You are now 39 points away from the 2nd star for your problem solving badge.

Try the next challenge | Try a Random Challenge

Problem

Submissions

Leaderboard

Discussions

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.

Examples

- grade* = 84 round to 85 (85 - 84 is less than 3)
- grade* = 29 do not round (result is less than 40)
- 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` in the editor below.

`gradingStudents` has the following parameter(s):

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

Returns

- `int[n]`: the grades after rounding as appropriate

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

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

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

- 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.
- 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.
- 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.
- Student 4 received a grade below 33, so the grade will not be modified and the student's final grade is 33.

Author nabila_ahmed

Difficulty Easy

Max Score 10

Submitted By 683531

NEED HELP?

- View discussions
- View editorial
- View top submissions

RATE THIS CHALLENGE



MORE DETAILS

- Download problem statement
- Download sample test cases
- Suggest Edits



Change Theme

Language

Swift

```
2
3 //
4 * Complete the 'gradingStudents' function below.
5 *
```

```

6  * The function is expected to return an INTEGER_ARRAY.
7  * The function accepts INTEGER_ARRAY grades as parameter.
8  */
9
10 func gradingStudents(grades: [Int]) -> [Int] {
11
12     var finalGrades = [Int]()
13
14     for grade in grades {
15         let nextMultiple = (grade - (grade % 5)) + 5
16         let remainder = nextMultiple - grade
17         if ((remainder < 3) && (grade >= 38)) {
18             print("Grade: \(grade), Final Grade: \(nextMultiple), Remainder: \(remainder)")
19             finalGrades.append(nextMultiple)
20         } else if remainder >= 3 {
21             finalGrades.append(grade)
22         } else if grade < 38 {
23             finalGrades.append(grade)
24         }
25     }
26
27     return finalGrades
28 }
29
30 let stdout = ProcessInfo.processInfo.environment["OUTPUT_PATH"]!

```

Line: 7 Col: 12

 Upload Code as File

☐ Test against custom input

Run Code

Submit Code



You have earned 10.00 points!

You are now 39 points away from the 2nd star for your problem solving badge.

44%

61/100

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Compiler Message

Success

Test case 1

Test case 2

Input (stdin)

[Download](#)

```

1  4
2  73
3  67
4  38
5  33

```

Test case 3

Test case 4

Test case 5

Test case 6

Expected Output

[Download](#)

```

1  75

```