



Grading Students ☆

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Problem

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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.

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.

`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

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

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**.

Author

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Difficulty

Easy

Max Score

10

Submitted By

341537

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

Change Theme java 8

```
18  * The function accepts INTEGER_ARRAY grades as parameter.
19  */
20  public static List<Integer> gradingStudents(List<Integer> grades) {
21      for (int i = 0; i < grades.size(); i++) {
22          Integer grade = grades.get(i);
23          int num = grade < 10? 0 : Character.getNumericValue((grade.toString().charAt
(1)));
24          if(grade <=10)
25              continue;
26          else
27              if(num == 4 || num == 3) {
28                  int tens = Character.getNumericValue(grade.toString().charAt(0));
29                  int units = 5;
30                  Integer temp = Integer.parseInt(tens + "" + units);
31                  if(grade >37)
32                      grades.set(i, temp);
33              }else if(num == 9 || num == 8) {
34                  int tens = Character.getNumericValue(grade.toString().charAt(0)) + 1;
35                  int units = 0;
36                  Integer temp = Integer.parseInt(tens + "" + units);
37                  if(grade >37)
38                      grades.set(i, temp);
39              }
```

Line: 23 Col: 32

Upload Code as File ☐ Test against custom input

Run Code

Submit Code



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32%

131.71/200

Congratulations

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Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

Download

```
1 4
2 73
3 67
4 38
5 33
```

Expected Output

Download

```
1 75
2 67
```