

# 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 **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

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.