





Grading Students ☆

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.

gradingStudents has the following parameter(s):

• grades: an array of integers representing grades before rounding

Input Format

The first line contains a single integer, $m{n}$, 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 < n < 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

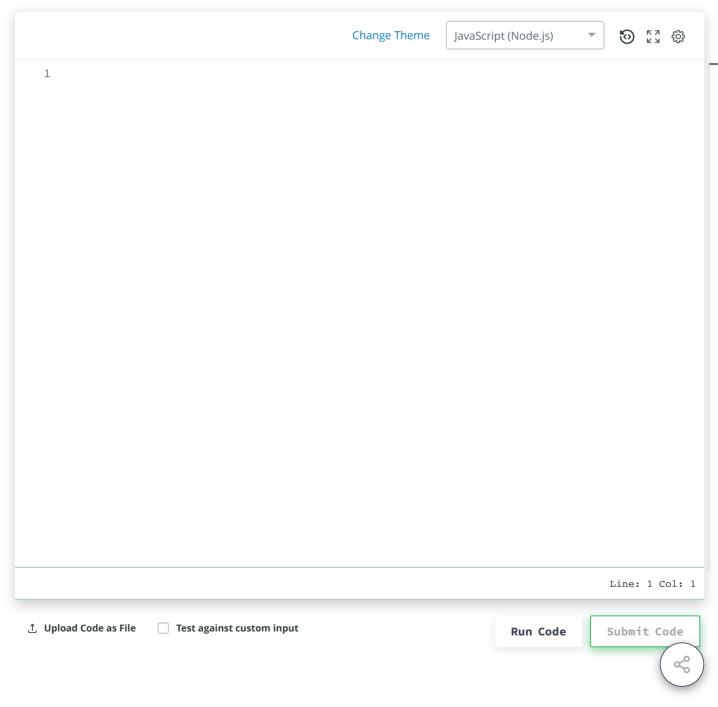
- 75
- 67
- 40
- 33

Explanation 0



ID	Original Grade	Final Grade
1	73	75
2	67	67
3	38	40
4	33	33

- 1. Student $\bf 1$ received a $\bf 73$, and the next multiple of $\bf 5$ from $\bf 73$ is $\bf 75$. Since $\bf 75 \bf 73 < \bf 3$, the student's grade is rounded to $\bf 75$.
- 2. Student $\bf 2$ received a $\bf 67$, and the next multiple of $\bf 5$ from $\bf 67$ is $\bf 70$. Since $\bf 70-\bf 67=\bf 3$, the grade will not be modified and the student's final grade is $\bf 67$.
- 3. Student $\bf 3$ received a $\bf 38$, and the next multiple of $\bf 5$ from $\bf 38$ is $\bf 40$. Since $\bf 40 \bf 38 < \bf 3$, the student's grade will be rounded to $\bf 40$.
- 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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