Grading Students



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

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