

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

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