

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

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

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**.