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 ${f 5}$ is less than ${f 3}$, round grade up to the next multiple of ${f 5}$.
- 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)
- qrade = 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

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

Sample Input 0

4 73

67

20

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.