

Grading Students

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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

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

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**.

Author

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Difficulty

Easy

Max Score

10

Submitted By

461108

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```
1 //ALDO FUSTER TURPIN
2
3 package main
4
5 import (
6     "bufio"
7     "fmt"
8     "io"
9     "os"
10    "strconv"
11    "strings"
12 )
13
14 func getNextMultipleOfFive(n int32) int32 {
15     for n%5 != 0 {
16         n++
17     }
18     return n
19 }
20
21 func roundGrade(grade int32) int32 {
22     if grade < 38 {
23         return grade
24     }
25
26     nextMultipleOfFive := getNextMultipleOfFive(grade)
27     if nextMultipleOfFive-grade < 3 {
28         return nextMultipleOfFive
29     }
30
31     return grade
32 }
33
34 func gradingStudents(grades []int32) []int32 {
```

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Test against custom input

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671/850

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Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Compiler Message

Success

Input (stdin)

4
73
67
38
33

Expected Output

75
67
40
33

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