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Grading Students

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Problem

Submissions

Leaderboard

Discussions

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.



For example, **grade** = **84** will be rounded to **85** but **grade** = **29** will not be rounded because the rounding would result in a number that is less than **40**.

Given the initial value of **grade** for each of Sam's **n** students, write code to automate the rounding process. For each **grade_i**, round it according to the rules above and print the result on a new line.

Input Format

The first line contains a single integer denoting **n** (the number of students).

Each line **i** of the **n** subsequent lines contains a single integer, **grade_i**, denoting student **i**'s grade.

Constraints

- $1 \leq n \leq 60$
- $0 \leq \text{grade}_i \leq 100$

Output Format

For each **grade_i** of the **n** grades, print the rounded grade on a new line.

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 **38**, so the grade will not be modified and the student's final grade is **33**.

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Contest ends in 8 hours

Submissions: 6725

Max Score: 10

Difficulty: Easy

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C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         //int n = 4;
9         int n = int.Parse(Console.ReadLine());
10
11         //int[] grade = { 73, 67, 38, 33 };
12         //int x = 0;
13
14         while (n-- > 0)
15         {
16             //int g = grade[x++];
17             int g = int.Parse(Console.ReadLine());
18
19             if (g < 38)
20             {
21                 Console.WriteLine(g);
22             }
23             else
24             {
25                 int nextMult5 = g;
26
27                 while (nextMult5 % 5 != 0)
28                 {
29                     nextMult5++;
30                 }
31
32                 if (nextMult5 - g < 3)
33                 {
34                     Console.WriteLine(nextMult5);
35                 }
36                 else
37                 {
38                     Console.WriteLine(g);
39                 }
40             }
41         }
42     }
43 }
44
45 }
```

Line: 41 Col: 1

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