HackerRank Prepare > Interview Preparation Kits > 3 Months Preparation Kit > Week 2 > Grading Students

HackerLand University has the following grading policy:

- ullet 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 $\bf 5$ is less than $\bf 3$, round grade up to the next multiple of $\bf 5$.
- 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

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

Change Theme | Language Python 3 **3** ווווףטו נ וכ import sys # Complete the 'gradingStudents' function below. # The function is expected to return an INTEGER_ARRAY. # The function accepts INTEGER_ARRAY grades as parameter. 16 ∨ def gradingStudents(grades): # Write your code here result = [grade for grade in grades] for idx, marks in enumerate(grades): if marks >= 38: next_multiple = ((marks // 5) + 1) * 5 if next_multiple - marks < 3:</pre> marks = next_multiple result[idx] = marks return result v if __name__ == '__main__': fptr = open(os.environ['OUTPUT_PATH'], 'w') grades_count = int(input().strip()) grades = [] for _ in range(grades_count): grades_item = int(input().strip()) grades.append(grades_item) result = gradingStudents(grades) fptr.write('\n'.join(map(str, result))) fptr.write('\n')
fptr: TextIOWrapper fptr.close() Line: 28 Col: 18 Submit Code Run Code **Test against custom input ⊘** Test case 0 Compiler Message Success Download Input (stdin) 4 73 67 38 33 **Expected Output** Download 75