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Grading System AZ101

? Ask Doubt

Time-Limit: 1 sec

Score: 100.00/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Description

You are given the marks of a student in mid-term, final-term and the make-up examinations. If the student does not attend an exam, marks are assigned as -1. You have to find the grade of the student according to the following guidelines:

1. If the student does not take the mid-term or the final-term exam, grade is F
2. If the total score in mid-term and final-term is greater than or equal to 80, grade is A.
3. If the total score in mid-term and final-term is greater than or equal to 65 and less than 80, grade is B.
4. If the total score in mid-term and final-term is greater than or equal to 50 and less than 65, grade is C.
5. If the total score in mid-term and final-term is greater than or equal to 30 and less than 50, grade is D. However, if the score of the make-up examination is greater than or equal to 50, the grade will be C.
6. If the total score in mid-term and final-term is less than 30, grade is F.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains three space-separated integers M, F, R - the marks of the student in the mid-term, final-term and the make-up examinations.

Output Format

For each test case, print the grade of the student.

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq M, F \leq 50$
- $1 \leq R \leq 100$

Sample Input 1

Copy

```
4
41 48 76
-1 48 100
20 25 61
21 5 20
```

Sample Output 1

Copy

C++14[GCC] ▾

Submit

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