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# Grade The Steel

Problem Code: FLOW014

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A certain type of steel is graded according to the following conditions.

1. **Hardness** of the steel must be greater than 50
2. **Carbon content** of the steel must be less than 0.7
3. **Tensile strength** must be greater than 5600

The grades awarded are as follows:

- Grade is 10 if all three conditions are met
- Grade is 9 if conditions (1) and (2) are met
- Grade is 8 if conditions (2) and (3) are met
- Grade is 7 if conditions (1) and (3) are met
- Grade is 6 if only one condition is met
- Grade is 5 if none of the three conditions are met

Write a program to display the grade of the steel, based on the values of hardness, carbon content and tensile strength of the steel, given by the user.

## Input

The first line contains an integer **T**, total number of testcases. Then follow **T** lines, each line contains three numbers **hardness**, **carbon content** and **tensile strength** of the steel.

## Output

For each test case, print Grade of the steel depending on Conditions, in a new line.

## Constraints

- $1 \leq T \leq 1000$
- $0 \leq \text{hardness, carbon content, tensile strength} \leq 10000$

## Sample Input

```
3
53 0.6 5602
45 0 4500
0 0 0
```

## Sample Output

```
10
6
6
```

All submissions for this problem are available.

|               |                                                                                                                                                                                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Tags:         | vicky002                                                                                                                                                                                                                                                                                            |
| Date Added:   | 27-04-2015                                                                                                                                                                                                                                                                                          |
| Time Limit:   | 1 secs                                                                                                                                                                                                                                                                                              |
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