

BlueBook - Grades

Time limit: 1.0s **Memory limit:** 16M

BlueBook

Given T ($1 \leq T \leq 100$) integers in the range $(-1\,000, 1\,000)$, representing percentages, calculate which letter grade each of them corresponds to.

The mark table is as follows:

Grade	Marks Range
A	80 - 100
B	70 - 79
C	60 - 69
D	50 - 59
F	0 - 49
X	Anything else...

Input Specification

Line 1: One integer T

Lines 2 $\dots T + 1$: One integer N

Output Specification

Lines 1 $\dots T$: One character denoting the letter grade received.

Sample Input

```
3
10
99
101
```

Sample Output

F
A
X