
8. Magazine Quiz

Program Name: quiz.java

Input File: quiz.in

You are writing a program to score a quiz for an online magazine. The quiz is multiple-choice and consists of 9 questions, each having four choices (A, B, C, or D) each having a point value of -1, 0, +1, or +2. The point value assigned to a given choice for each question varies by the chart below where answers for each problem are listed such that the first choice listed is worth -1, the second is worth 0, the third, +1, and the fourth, +2:

#	-1	0	+1	+2
1	D	A	B	C
2	C	B	D	A
3	B	D	A	C
4	A	B	C	D
5	A	C	B	D
6	B	D	A	C
7	B	C	D	A
8	A	C	B	D
9	C	B	D	A

Scores for the quiz fall into the following four ranges, each with its own one-line diagnosis:

SCORE	DIAGNOSIS
< 0	"It's hopeless!"
0 to 5	"Don't give up!"
6 to 10	"You're on target!"
> 10	"It's a sure thing!"

Input

The first line of input will contain a single integer, n , indicating the number of data sets. Each of the next n lines will contain a string of 9 characters representing one person's answers for the quiz.

Output

For each data set, output the score and the diagnosis.

Example Input File

```
4
BDACBADBD
CACDDCADA
DCBAABBAC
ABDBCDCCB
```

Example Output To Screen

```
9 You're on target!
18 It's a sure thing!
-9 It's hopeless!
0 Don't give up!
```