## Qualify the round

In a coding contest, there are two types of problems:

- Easy problems, which are worth $1$ point each
- Hard problems, which are worth $2$ points each

To qualify for the next round, a contestant must score at least $X$ points. Chef solved $A$ Easy problems and $B$ Hard problems. Will Chef qualify or not?

## Input Format

- The first line of input contains a single integer $T$, denoting the number of test cases. The description of $T$ test cases follows.
- Each test case consists of a single line of input containing three space-separated integers — $X$, $A$, and $B$.

## Output Format

For each test case, output a new line containing the answer — `Qualify` if Chef qualifies for the next round, and `NotQualify` otherwise.

Each character of the answer may be printed in either uppercase or lowercase. For example, if the answer is `Qualify`, outputs such as `qualify`, `quALiFy`, `QUALIFY` and `QuAlIfY` will also be accepted as correct.

## Constraints

- $1 \leq T \leq 100$
- $1 \leq X \leq 100$
- $0 \leq A, B \leq 100$

## Sample 1:

| Input | Output |
|---|---|
| 3<br>15 9 3<br>5 3 0<br>6 2 8 | Qualify<br>NotQualify<br>Qualify |

## Explanation:

**Test Case $1$:** Chef solved $9$ easy problems and $3$ hard problems, making his total score $9 \cdot 1 + 3 \cdot 2 = 15$. He needs at least $15$ points to qualify, which he has and hence he qualifies.

**Test Case $2$:** Chef solved $3$ easy problems and $0$ hard problems, making his total score $3 \cdot 1 + 0 \cdot 2 = 3$. He needs at least $5$ points to qualify, which he doesn't have and hence doesn't qualify.

**Test Case $3$:** Chef solved $2$ easy problems and $8$ hard problems, making his total score $2 \cdot 1 + 8 \cdot 2 = 18$. He needs at least $6$ points to qualify, which he has and hence he qualifies.