## Bankomat

As a world-renowned computer scientist, you have received an offer from a start-up Swiss bank to write some software for ATMs. Your program has to check if it is able to withdraw the amount requested by the customer with the available banknotes.

## Input

The first line contains the number $D$, indicating the number of data sets. Each data set fits on one line and consists of six numbers: a1, a2, a3, a4, a5, k (ai<=1000, $k<=10000$ ). Numbers a1..a5 denote the number of $10,20,50,100,200$ Swiss franc banknotes available in the ATM. The number k indicates the desired amount to be deposited.

## Output

For each data set, one line should appear in the result containing a single YES or NO word indicating whether the ATM can currently withdraw the requested amount.

## Example

## Input:

3
0210101000110
1210101000110
19910040201010000

## Output:

NIE
TAK
NIE

