

Hidden Couple

Jerry is a meritorious student of **Varendra University**. She always loves fantasy. Now she wants to go to **MALDIVES** which one of the world's most beautiful countries, and a lot of her friends live there. Now she gets an offer from an airline company. The offer is Jerry can take only a friend from **BANGLADESH** without paying any ticket cost if and only if her friend's name's value is divisible by 3 (the mysterious number). Read a name and calculate the value for that name. The value is calculated by adding **ASCII** values of all of the characters in a name.

Input

The first line in the data set is an integer **T** ($1 \leq T \leq 100$) that represents the number of names that follow. Each name is on a separate line. The maximum name length is **70** characters (without any space)

Output

Print "**Yes**" if her friend can go with her, otherwise print "**No**". The output is to be formatted exactly like that for the sample output given below.

Example

Input:

3

ASHA

DROGO

BATMAN

Output:

Case 1: Yes

Case 2: No

Case 3: Yes