The Patriotic Indian

Everyone knows that Rajesh Koothrappali alway	ys keep complaining about the drawbacks of living in
India. Some maynot like living in their motherlan	d, but that doesn't mean that they don't love it. Raj is one
of them. So on one fine morning of 15.08.2014, F	Raj confesses that he really loves India and he misses
it(Yes, there are no women in the room). Sheldon is amused to hear this. He says to Raj, "No,
you don't. You are just saying that because toda	y is your country's 68th Independence day." Raj is
piqued. Sheldon says, "Well, I can prove it. I will	give you a date of the format "DD.MM.YYYY" where DD
and MM is always 15 and 08 respectively. YYYY	varies accordingly. You have to say if that date falls on
the same day as that of India's independence da	y(15.08.1947) or not. Are you ready"? Raj doesn't want
to lose. Though he is an astrophysicist, he is terr	rible at programming. So he asks for your help. Can you
help Raj to prove him as a "Patriotic Indian"?	

Input

The first line consists of an integer n, the number of test cases(1<=n<=1000). Each test case consists of a date of the format "DD.MM.YYYY" where DD is always 15(denotes the 15th day), MM is always 08(denotes the 8th month, August) and the value of YYYY is a four digit number, that is, 1000<=YYYY<=9999 which denotes the year.

Output

For each test case, output "Yes." if the given date falls on the same day as that of India's independence day(15.08.1947) or "No.", if it doesn't. And also as India got its independence only in 1947, if a year before 1947 is given in the input, checking for it's validity is meaningless. So in such cases, print "Invalid.".

Example

Input:

4

15.08.1947

15.08.2015

15.08.1930

15.08.2014

Output:

Yes.

No.

Invalid. Yes.

EXPLANATION:

Test case 3: As the given date 15.08.1930 is before India's independence (15.08.1947), the correct ouput will be "Invalid.".