Is It Prime?

A prime number (or a prime) is a natural number greater than 1 that has no positive divisors other than 1 and itself. Below is a chart of numbers up to 100 and yellow marked numbers are prime numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

We want you to write a program that can check whether a given input number is prime number or not. All number will be in the range **0 <= N <=10000**.

Input:

Input starts with an integer **T (≤ 5000)**, denoting the number of test cases.

Each test case will have one line containing the number to test.

Output:

For each test case, print either "Yes" (without quotes) or "No" (without quotes). If the input number is prime number then print "Yes", otherwise print "No". Please check sample input/output to get an idea.

Sample Input	Sample Output
3 97 55 1000	Yes No No

Limits:

Language	Time	Memory
C	1 Second	50MB
C++	1 Second	50MB
Java	1 Second	50MB
C#	1 Second	50MB
PHP	1 Second	50MB