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PON - Prime or Not

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Given the number, you are to answer the question: "Is it prime?"

Solutions to this problem can be submitted in C, C++, Pascal, Perl, Python, Ruby, Lisp, Hask, Ocaml, Prolog, Whitespace, Brainfk and Intercal only.**
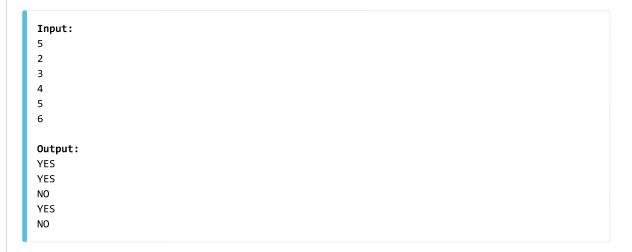
Input

t – the number of test cases, then t test cases follows. [t <= 500]
Each line contains one integer: N [2 <= N <= 2^63-1]

Output

For each test case output string "YES" if given number is prime and "NO" otherwise.

Example

```
Input:
5
2
3
4
5
6

Output:
YES
YES
NO
YES
NO
```

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2. Please be careful, leave short comments only. Don't spam here.
3. For more discussion (hints, ideas, solutions) please visit our forum (/forum).
4. Authors of the problems are allowed to delete the post and use html code here (e.g. to provide some useful links).

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Added by:	Roman Sol (/users/turbo)
Date:	2005-01-24
Time limit:	21s
Source limit:	5000B
Memory limit:	1536MB
Cluster:	Cube (Intel G860) (/clusters/)
Languages:	All except: ADA95 ASM32 BASH CSHARP CLPS D ERL FORTRAN ICON JAVA JS-RHINO LUA NEM NICE PHP PIKE ST

Resource: ZCon 2005
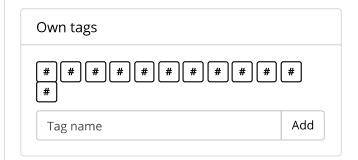   (http://zcontest.ru/2005.02/zpon.php)

Vote requirements   ⚠

- ✔ be spoj user for at least 5 days
- ✘ solved 5 from 15 needed problems
- ✔ solve this problem

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