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Description

Exponential or Quadratic

Program Description

Does $2^n > n^2$ hold?

Input Format

Input is given from Standard Input in the following format:

n

Output Format

If $2^n > n^2$, print Yes; otherwise, print No.

Constraints

- n is an integer between 1 and 10^9 (inclusive).

Explaination

Explanation for Input 1 :

Since $2^5 = 32$, $5^2 = 25$, we have $2^n > n^2$, so Yes should be printed.

Input-1

5

Output-1

Yes

Input-2

2

C - GCC 11.1.0 ▾   ⏱ Timer   0:07 sec

```c
1    #include<stdio.h>
2    #include<math.h>
3    int main()
4    {
5        int n;
6        scanf("%d",&n);
7        if(pow(2,n)>pow(n,2)) printf("Yes");
8        else printf("No");
9        return 0;
10   }
```

</> Run Code

Compiler Response

#	Testcase	Input	Expected Output	Your Output	Memory	CPU time	Result
1	5	5	Yes	Yes	1408 KB	3.393 ms	Pass
2	2	2	No	No	1408 KB	2.586 ms	Pass

All hidden testcases passed

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