Description

Abundant Numbers

Program Description

Write A Program to check a given number is Abundant Number or Not .

Abundant Number : A number is abundant, if sum of the proper factors of the number is greater than the number.

The first few abundant numbers are: 12, 18, 20, 24,..

Input Format

A single line input contains an integer N.

Output Format

Display True if give integer N is Abundant other wise display False.

Constraints

$1<=N<=10^4$

Explaination

Factors of 12 = 1 + 2 + 3 + 4 + 6 = 16

16 > 12

12 is Abundant Number

Input-1

12

Output-1

True

Input-2

13

Output-2

C - GCC 11.1.0 ▾ Timer 0:00 sec

Light

```c
#include<stdio.h>
int main()
{
    int n,s=0;
    scanf("%d",&n);
    for(int i=1;i<n;i++)
    {
        if(n%i==0)
        s=s+i;
    }
    if(s>n)
    {
        printf("True");
    }
    else
    {
        printf("False");
    }
    return 0;
}
```

Run Code

Compiler Response

#	Testcase	Input	Expected Output	Your Output	Memory	CPU time	Result
1	12	12	True	True	1408 KB	3.496 ms	Pass
2	13	13	False	False	1408 KB	2.694 ms	Pass

All hidden testcases passed

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