**vB - Pineapple Incident**

**时间限制：**1000MS     **内存限制：**262144KB     **64bit IO格式：**%I64d & %I64u

[提交](http://vjudge.net/contest/123831" \l "problem/javascript:void(0)) [地位](http://vjudge.net/contest/123831" \l "status//B/0) [实践](http://vjudge.net/problem/CodeForces-697A" \t "http://vjudge.net/contest/123831" \l "problem/_blank) [CodeForces 697A](http://vjudge.net/problem/419849/origin" \t "http://vjudge.net/contest/123831" \l "problem/_blank)

**描述**

Ted has a pineapple. This pineapple is able to bark like a bulldog! At time *t* (in seconds) it barks for the first time. Then every *s* seconds after it, it barks twice with 1 second interval. Thus it barks at times *t*, *t* + *s*, *t* + *s* + 1, *t* + 2*s*, *t* + 2*s* + 1, etc.



Barney woke up in the morning and wants to eat the pineapple, but he can't eat it when it's barking. Barney plans to eat it at time *x* (in seconds), so he asked you to tell him if it's gonna bark at that time.

**输入**

The first and only line of input contains three integers *t*, *s* and *x* (0 ≤ *t*, *x* ≤ 109, 2 ≤ *s* ≤ 109) — the time the pineapple barks for the first time, the pineapple barking interval, and the time Barney wants to eat the pineapple respectively.

**输出**

Print a single "YES" (without quotes) if the pineapple will bark at time *x* or a single "NO" (without quotes) otherwise in the only line of output.

**样本输入**

**Input**

3 10 4

**Output**

NO

**Input**

3 10 3

**Output**

YES

**Input**

3 8 51

**Output**

YES

**Input**

3 8 52

**Output**

YES

**提示**

In the first and the second sample cases pineapple will bark at moments 3, 13, 14, ..., so it won't bark at the moment 4 and will bark at the moment 3.

In the third and fourth sample cases pineapple will bark at moments 3, 11, 12, 19, 20, 27, 28, 35, 36, 43, 44, 51, 52, 59, ..., so it will bark at both moments 51 and 52.

菠萝事件。

时间限制每个测试

第二

内存限制每个测试

256 MB

输入

标准输入

输出

标准输出

泰德有一个菠萝。这个菠萝能够树皮像斗牛犬！在时间*T*（秒）树皮的第一次。然后每*S*几秒钟后，它会叫两次一第二区间。因此，树皮有时*T*，*T*  *S*，*T*  *S*  1，*T*  2*S*，*T*  2*S*  1，等。



Barney早晨醒来要吃菠萝，但他不能吃它时，它的叫声。Barney打算吃它的时候*X*（秒），所以他问你是否会树皮当时告诉他。

**输入**

输入的第一行包含三个整数，只*T*，*S*和*X*（0 ≤ *T*， *X* ≤ 10九，2 ≤ *S* ≤ 10九) — the time the pineapple barks for the first time, the pineapple barking interval, and the time Barney wants to eat the pineapple respectively.

**输出**

打印一个“是”（没有引号）如果菠萝会吠的时间*X*或一个“不”（没有引号）否则在输出唯一的线。

**实例**

**输入**

3 10 4

**输出**

不

**输入**

3 10 3

**输出**

对

**输入**

3 8 51

**输出**

对

**输入**

3 8 52

**输出**

对

**笔记**

在第一和第二样本菠萝会吠的时刻三，十三，十四，…，所以它不会吠叫，此刻四将树皮的那一刻三。

在第三和第四的样本会在瞬间菠萝皮三，十一，十二，十九，二十，二十七，二十八，三十五，三十六，四十三，四十四，五十一，五十二，五十九，…，所以它会吠的时刻五十一和五十二。