749. John's backyard garden

* [Description](http://lintcode.com/en/problem/johns-backyard-garden/" \l "description)
* [Notes](http://lintcode.com/en/problem/johns-backyard-garden/#note)
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John wants to build a back garden on the empty space behind his home. There are two kinds of bricks now, one is 3 dm high and the other is 7 dm high. John wants to enclose a high x dm wall. If John can do this, output YES, otherwise NO.

 Notice

X is an integer, and it's range is [3, 1000].

Have you met this question in a real interview?

Yes

**Example**

Give x = 10,return YES.

Explanation:

x = 3 + 7:That is, you need one batch of 3 dm height bricks and one batch of 7 dm height bricks.

Give x = 5,return NO.

Explanation:

John can not enclose a high 5 dm wall with 3 dm height bricks and 7 dm height bricks.

Give x = 13,return YES.

Explanation:

x = 2 \* 3 + 7:That is, you need two batch of 3 dm height bricks and one batch of 7 dm height bricks.

<http://lintcode.com/en/problem/johns-backyard-garden/#>

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*\*/*

**package** javaapplication3;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**import** java.util.List;

***/\*\****

***\****

***\* @author Usuario***

***\*/***

**public** **class** JavaApplication3 {

***/\*\****

***\* @param n***

***\* @param args the command line arguments***

***\*/***

**static** String isBuild(**int** x)

    {

*// write you code here*

**if**(x==3 || x ==7) **return** "YES";

        List<Integer> mult3 = **new** ArrayList();

        List<Integer> mult7 = **new** ArrayList();

**for** (**int** i = 1; 3 \* i <= x; i++) mult3.add(3 \* i);

**for** (**int** i = 1; 7 \* i <= x; i++) mult7.add(7 \* i);

**int**[] a1 = **new** **int**[mult3.size()];

**int**[] b2 = **new** **int**[mult7.size()];

**for**(**int** i =0; i<a1.length; i++) a1[i] = mult3.get(i);

**for**(**int** i =0; i<b2.length; i++) b2[i] = mult7.get(i);

**for** (**int** j = 0; j < b2.length; j++)

**if** (Arrays.binarySearch(a1, x - b2[j])>=0 ) **return** "YES";

**return** "NO";

    }

**public** **static** **void** main(String[] args) {

*// TODO code application logic here*

        System.out.println(isBuild(3));

    }

}