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Input() ★

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You have successfully solved Input()

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Problem

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This challenge is only for Python 2.

input()

In Python 2, the expression input() is equivalent to eval(raw\_input(prompt)).

Code

>>> input()  
1+2  
3  
>>> company = 'HackerRank'  
>>> website = 'www.hackerrank.com'  
>>> input()  
'The company name: '+company+' and website: '+website  
'The company name: HackerRank and website: www.hackerrank.com'

Task

You are given a polynomial  $P$  of a single indeterminate (or variable),  $x$ .

You are also given the values of  $x$  and  $k$ . Your task is to verify if  $P(x) = k$ .

Constraints

All coefficients of polynomial  $P$  are integers.

$x$  and  $y$  are also integers.

Input Format

The first line contains the space separated values of  $x$  and  $k$ .

The second line contains the polynomial  $P$ .

Output Format

Print True if  $P(x) = k$ . Otherwise, print False.

Sample Input

1 4  
 $x**3 + x**2 + x + 1$

Sample Output

True

## Explanation

$$P(1) = 1^3 + 1^2 + 1 + 1 = 4 = k$$

Hence, the output is `True`.

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Language

Pypy 3



```
1 # Link = https://www.hackerrank.com/challenges/input/problem
2
3 a, b = map(int, input().split())
4 poly_str = input().strip()
5 def evaluate_poly(poly, x):
6     try:
7         # Replace 'x' with the value and evaluate
8         code = poly.replace('x', str(x))
9         return eval(code) # Evaluates the expression
10    except:
11        return None # Return None if evaluation fails
12
13 result = evaluate_poly(poly_str, a)
14 if result is not None and result == b:
15     print(True)
16 else:
17     print(False)
18
```

Line: 18 Col: 1

Upload Code as File



Test against custom input

Run Code

Submit Code

## Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge

Test case 0

Compiler Message

Test case 1

Success

✔ Test case 2 🔒

✔ Test case 3 🔒

✔ Test case 4 🔒

✔ Test case 5 🔒

Input (stdin)

Download

1	1 4
2	x**3 + x**2 + x + 1

Expected Output

Download

1	True
---	------