Le ouze octobre

x1 = input()

x2 = input()

y1 = input()

y2 = input()

if x2 == x1 + 1 and y2 == y1 + 2:

print('YES')

elif x2 == x1 - 1 and y2 == y1 - 2:

print('YES')

elif x2 == x1 + 1 and y2 == y1 - 2:

print('YES')

elif x2 == x1 - 1 and y2 == y1 + 2:

print('YES')

elif x2 == x1 + 2 and y2 == y1 + 1:

print('YES')

elif x2 == x1 - 2 and y2 == y1 - 1:

print('YES')

elif x2 == x1 + 2 and y2 == y1 - 1:

print('YES')

elif x2 == x1 - 2 and y2 == y1 + 1:

print('YES')

else:

print('NO')

Le dix-huit octobre

list2 = []

N = 6

for i in range(N):

x = input()

list2.append(x)

print list2

**2. Even elements**

N = input()

ster = raw\_input()

a = ster.split()

a = map(int, a)

s = ''

for i in range(N):

if a[i]%2 == 0:

s += str(a[i])

s += ' '

print s

**3. Number of positive elements**

N = input()

ster = raw\_input()

a = ster.split()

a = map(int, a)

s = ''

c = 0

for i in range(N):

if a[i] > 0:

#s += str(a[i])

c += 1

print c

4. Greater then last

N = input()

ster = raw\_input()

a = ster.split()

a = map(int, a)

s = ''

c = 0

size = len(a)

for i in range(N):

if i < size-1:

if a[i+1] > a[i]:

#s += str(a[i])

c += 1

print c

**5. Least odd**

ster = raw\_input()

a = ster.split()

a = map(int, a)

s = ''

c = 0

min = 1000

N = len(a)

for i in range(N):

if a[i]%2 != 0 and a[i] < min:

min = a[i]

else:

min = 0

s += str(min)

print(s)

**6. Reverse order**

a)

a = raw\_input().split()

a = map(int, a)

max = a[0]

index = 0;

N = len(a)

s = ''

for i in reversed(range(N)):

s += str(a[i]) + ' '

print s

b)

a = raw\_input().split()

a = map(int, a)

n= len(a)

for i in range(n):

print a[n-i-1],

**7. Sum of squares**

n = input()

sum = 0

for i in range(1, n + 1):

sum += i\*i

print sum

**8. Factrorial**

n = input()

fact = 1

for i in range(n+1):

if i == 0:

fact = 1

else:

fact \*= i

print fact

**9) Power**

a = input()

n = input()

power = 1

for i in range(n+1):

if i == 0:

power = 1

else:

power = pow(a, i)

print power

**10)**

N = input()

def factorial(x):

ans = 1

for i in range(1, x+1):

ans = i

return ans

answer = 0

for i in range(1, N+1):

answer += 1.0/factorial(i)

print answer

**11. Сумма степеней**

N = input()

def power(x):

ans = 2

for i in range(1, x):

ans \*= 2

return ans

answer = 1

for i in range(1, N):

answer += power(i)

print answer

**12. Количество локальных макс**

x = input()

a = input()

b = input()

ans = 0

while(b != 0):

if (a>x and a > b):

ans+=1

x = a

a = b

b = input()

print ans

**13. Сумма цифр числа**

N = input()

def SumOfDigits(n):

sum = 0

while(n!= 0):

sum += n%10

n /= 10

return sum

print SumOfDigits(N)

**14. Двоичная запись**

N = input()

bin = ""

while(N != 0):

if(N%2 == 0):

bin += "0"

N/=2

else:

bin += "1"

N/=2

print bin

*or*

import sys

N = input()

while(N != 0):

sys.stdout.write(str(N%2)),

N/=2

**14. Минимум 4 чисел**

x = raw\_input()

x = x.split()

x = map(int, x)

print min(x[0], x[1], x[2], x[3])

def min(a, b, c, d):

return min(min(a,b), min(c,d))

**15. Простота чисел**

from math import sqrt

n = input()

def isPrime(x):

if x == 1:

return 'composite'

for i in range(2, int(sqrt(x))+1):

if(x%i == 0):

return 'composite'

return 'prime'

s = isPrime(n)

print s

**16. Bubble Sort**

a = [2, -5, 14, 13, 1, 25, 3, 78]

'''

for i in range(len(a)):

for j in range(i+1, len(a)):

if a[i]>a[j]:

temp = a[i]

a[i] = a[j]

a[j] = temp

'''

a.sort() # O(N\*log(N))

print a

**17. Максимальный вперед**

N = input()

a = raw\_input()

a = a.split()

a = map(int, a)

maxi = 0

x = 0

for i in range(len(a)):

if(a[i]>maxi):

maxi = a[i]

x = i

temp = a[0]

a[0] = maxi

a[x] = temp

print str(a)

<https://teamtreehouse.com/community/binary-search-in-python>

**18. Соседи одного знака**

a = raw\_input()

a = a.split()

a = map(int, a)

f = 0;

s = 0;

# a = [-1, 2, 3, -1, -2]

for i in range(len(a)-1):

if((a[i] > 0 and a[i+1] > 0) or (a[i] < 0 and a[i+1] < 0)):

f = a[i]

s = a[i+1]

print f,

print s

break

**19. Больше своих соседей**

a = raw\_input()

a = a.split()

a = map(int, a)

count = 0;

for i in range(1, len(a)-1):

if(a[i] > a[i-1] and a[i] > a[i+1]):

count += 1

print count

**19. Шеренга**

a = raw\_input()

a = a.split()

a = map(int, a)

n = input()

index = 0;

for i in range(1, len(a)-1):

if(a[i] < n):

index = i+1

break

print index