"""

OJ23563: 多项式时间复杂度

http://cs101.openjudge.cn/practice/23563/

lst = []

for i in input().split("+"):

tmp = i.split("n^")

if tmp[0] != "":

a = int(tmp[0])

else:

a = 1

b = int(tmp[1])

if a:

lst.append(b)

print("n^" + str(max(lst)))

"""

"""

OJ23566: 决战双十一

http://cs101.openjudge.cn/practice/23566/

n, m = map(int, input().split())

dct = {i: 0 for i in range(1, m + 1)}

ans = 0

for i in range(n):

si, pi = map(int, input().split())

dct[si] += pi

ans += pi

d = ans // 200

ans = 0

for j in range(1, m + 1):

qj, xj = map(int, input().split("-"))

if dct[j] >= qj:

dct[j] -= xj

ans += dct[j]

print(ans - d \* 30)

"""

"""

OJ19948: 因材施教(greedy)

http://cs101.openjudge.cn/practice/19948/

n, m = map(int, input().split())

lst = list(map(int, input().split()))

lst.sort()

ans = lst[-1] - lst[0]

lst = [lst[i + 1] - lst[i] for i in range(n - 1)]

lst.sort(reverse=True)

print(ans - sum(lst[:m-1]))

"""

"""

OJ25301: 生日相同

http://cs101.openjudge.cn/practice/25301/

dct, lst = {}, []

for i in range(int(input())):

a, b, c = input().split()

k = int(b) \* 100 + int(c)

if k in dct:

dct[k] += " " + a

if k not in lst:

lst.append(k)

else:

dct[k] = a

lst.sort()

for i in lst:

print(i // 100, end=" ")

print(i % 100, end=" ")

print(dct[i])

"""

"""

OJ25302: 最大并发量

http://cs101.openjudge.cn/practice/25302/

for i1 in range(int(input())):

n = int(input())

start, end = [], []

ans = 0

for i2 in range(n):

x, y = map(int, input().split())

start.append(x)

end.append(y)

start.sort()

end.sort()

for i in range(n):

tmp = end[:]

tmp.append(start[i])

tmp.sort(reverse=True)

j = n - tmp.index(start[i])

ans = max(ans, 1 + i - j)

print(ans)

"""

"""

CF1749C: Number Game, binary search/data structure/games/greedy/implementation, 1400

https://codeforces.com/problemset/problem/1749/C

for i0 in range(int(input())):

n = int(input())

lst = list(map(int, input().split()))

f = False

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

lstp = lst[0:]

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

lstp.append(k - i + 1)

lstp.sort(reverse=True)

idx = lstp.index(k - i + 1)

del lstp[idx]

if idx < len(lstp):

del lstp[idx]

else:

print(k - 1)

f = True

break

if not lstp: break

lstp[len(lstp) - 1] += k - i + 1

if f: break

if not f: print(n)

"""