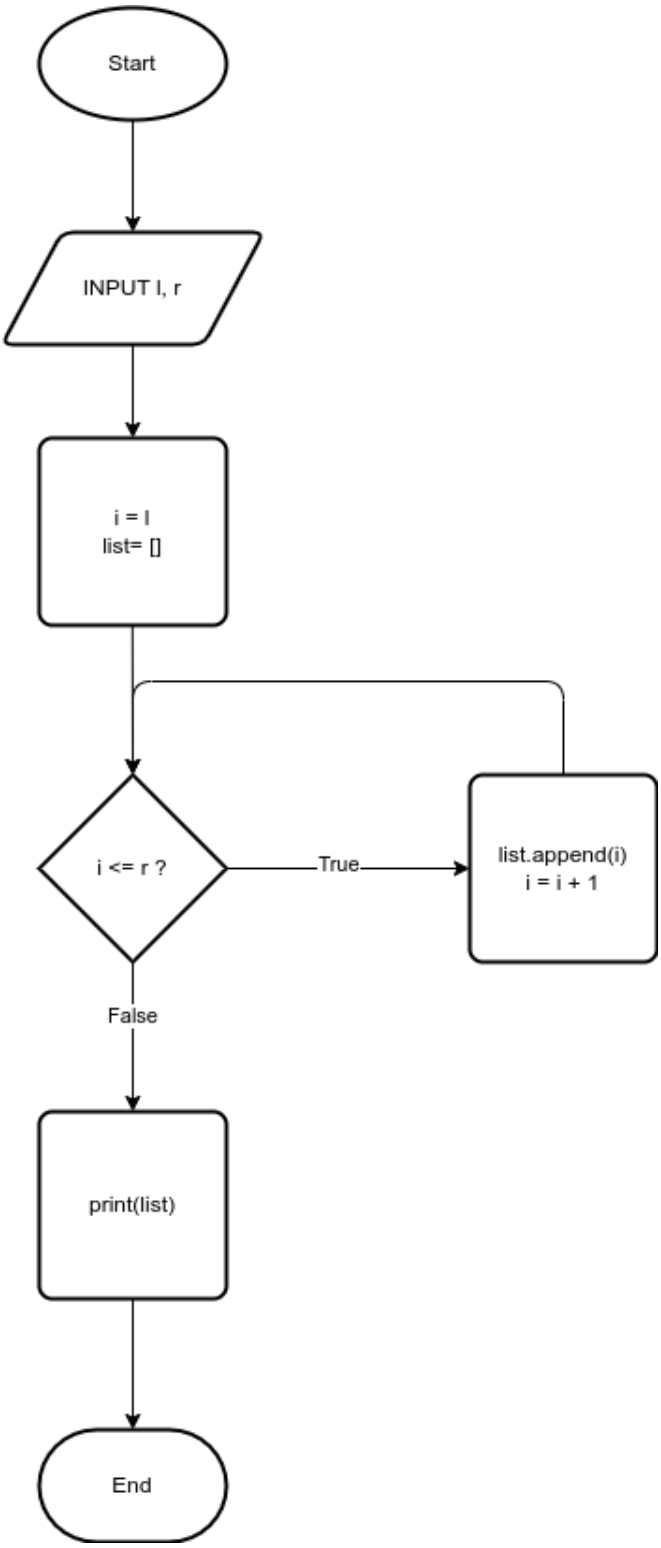
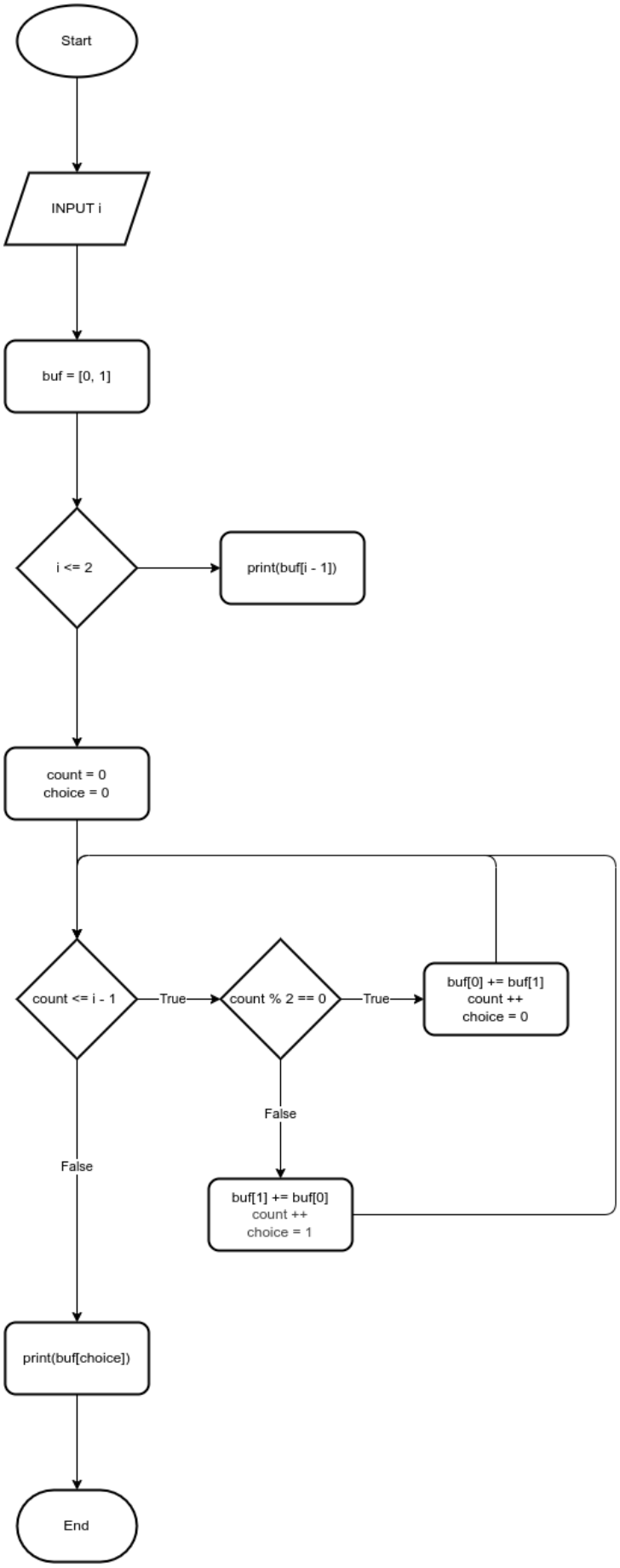
Loop

```
l, r = map(int, input().split())
[print(x, end=" ") for x in range(l, r + 1)]
```



Fibonacci



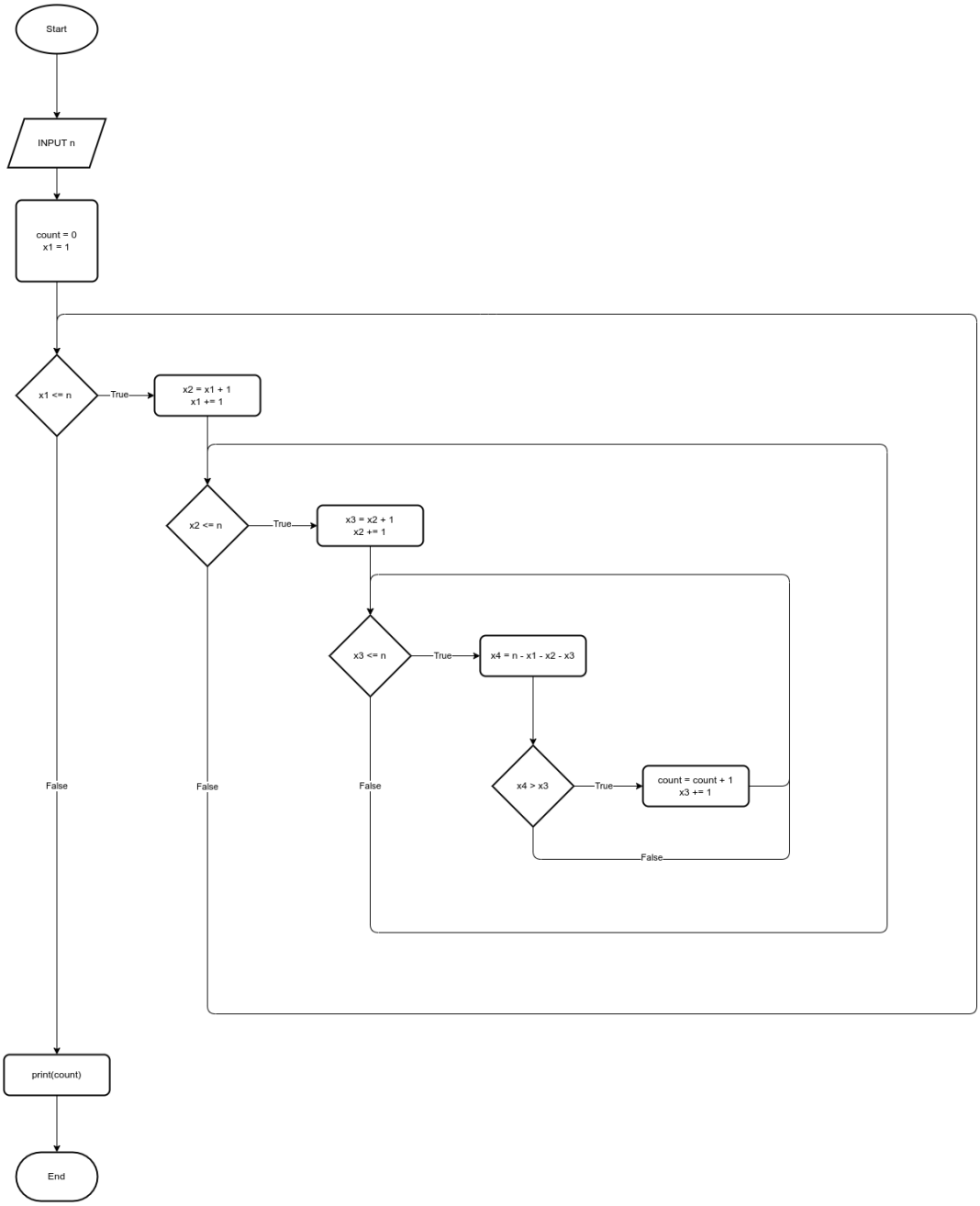

```
num = int(input())


arr = [0, 1]


if num <= 2:
    print(arr[num - 1])
else:
    for lol in range(0, num - 1):
        if lol % 2 == 1:
            arr[1] += arr[0]
            choice = 1
        if lol % 2 == 0:
            arr[0] += arr[1]
            choice = 0
    print(arr[choice])
```

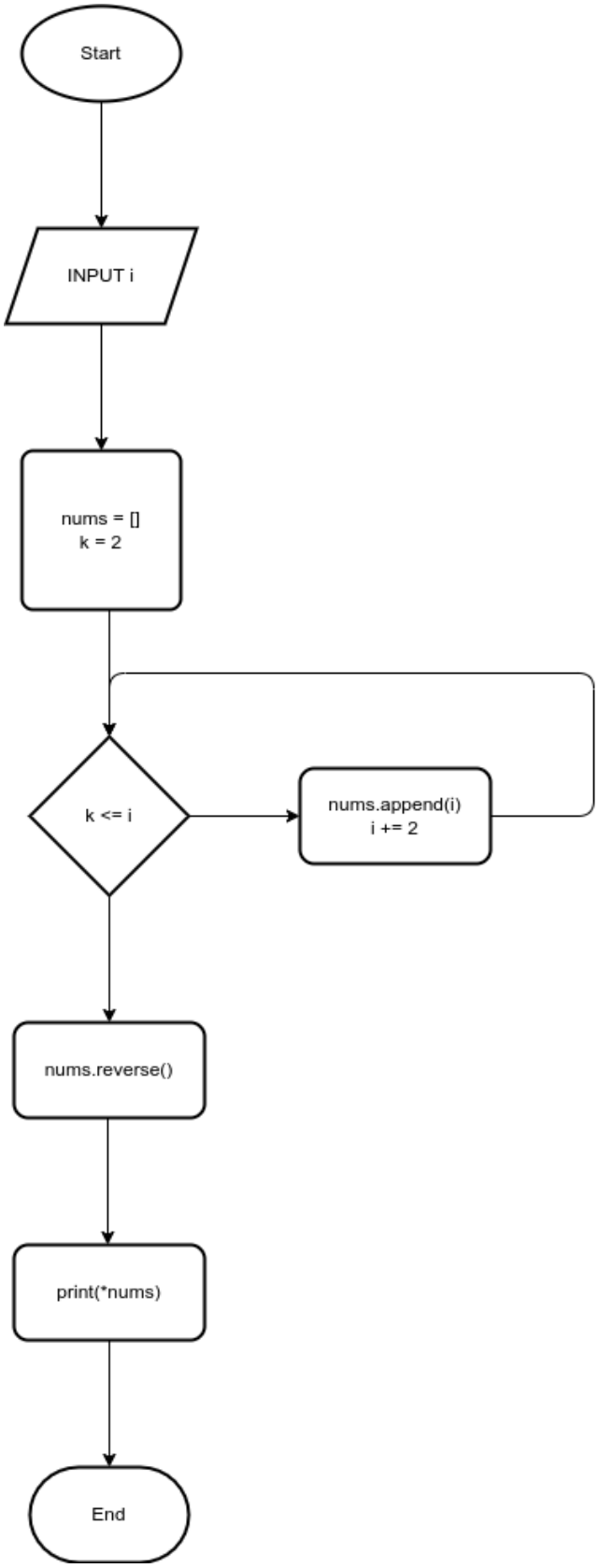
Solution

```
n = int(input())
count = 0
for x1 in range(1, n + 1):
    for x2 in range(x1 + 1, n + 1):
        for x3 in range(x2 + 1, n + 1):
            x4 = n - x1 - x2 - x3
            if x4 > x3:
                count += 1
print(count)
```

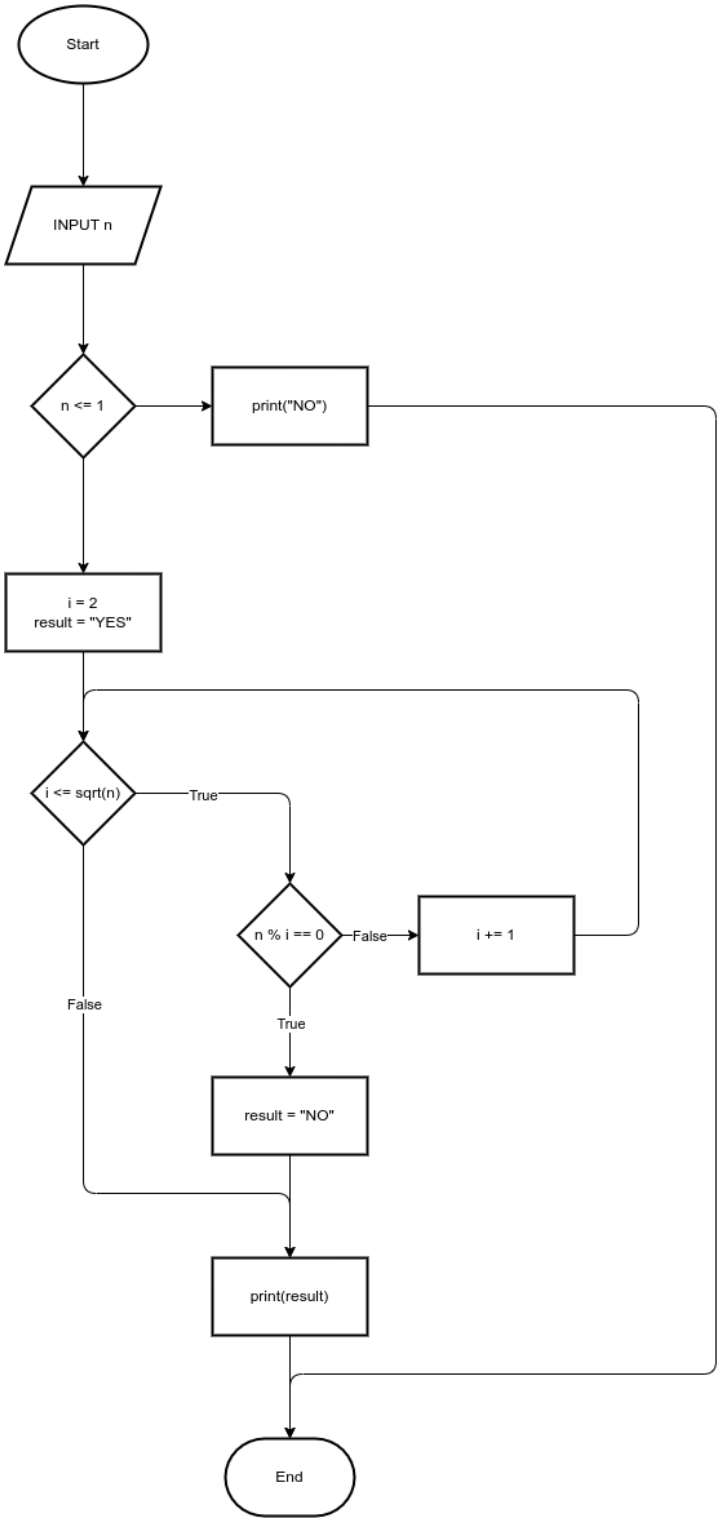


Even numbers

```
print(*[lol for lol in reversed(range(2, int(input()) + 1, 2))])
```



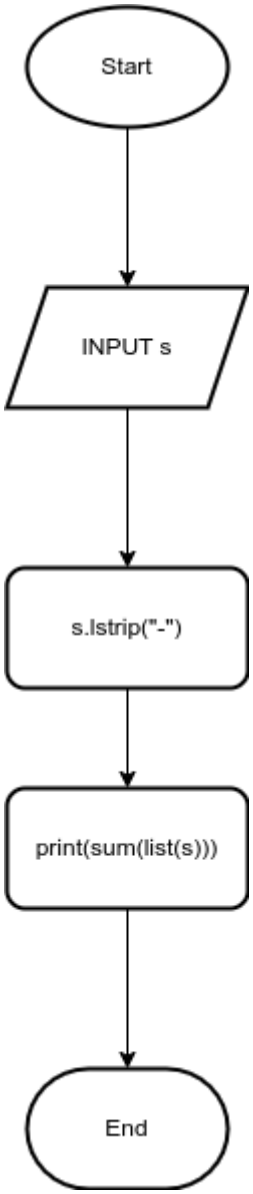
Prime number




```
n = int(input())
if n <= 1:
    print("NO")
else:
    result = "YES"
    for i in range(2, int(n**0.5) + 1):
        if n % i == 0:
            result = "NO"
            break
    print(result)
```

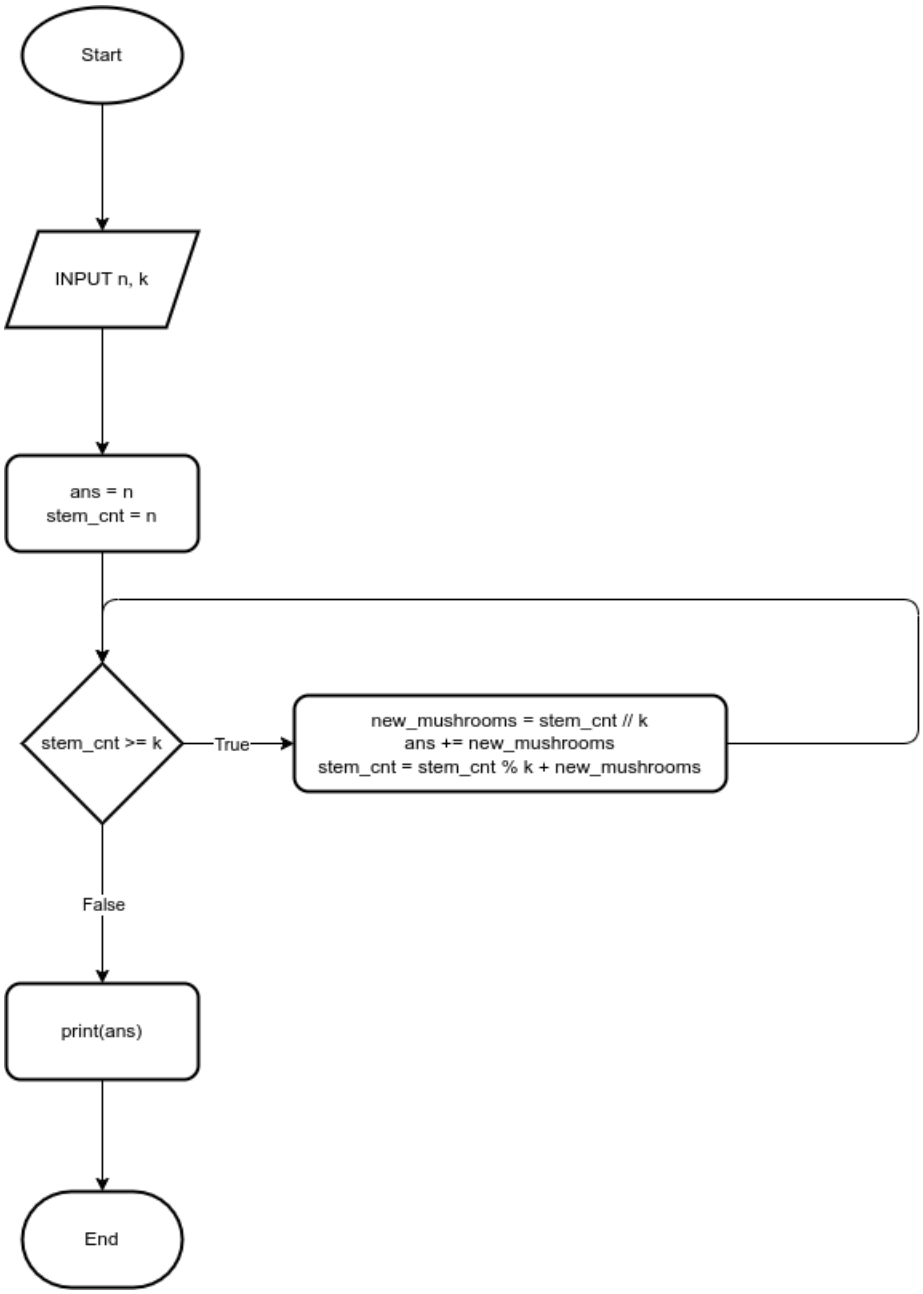
Digit sum

```
print(sum(map(int, list(input().lstrip("-")))))
```



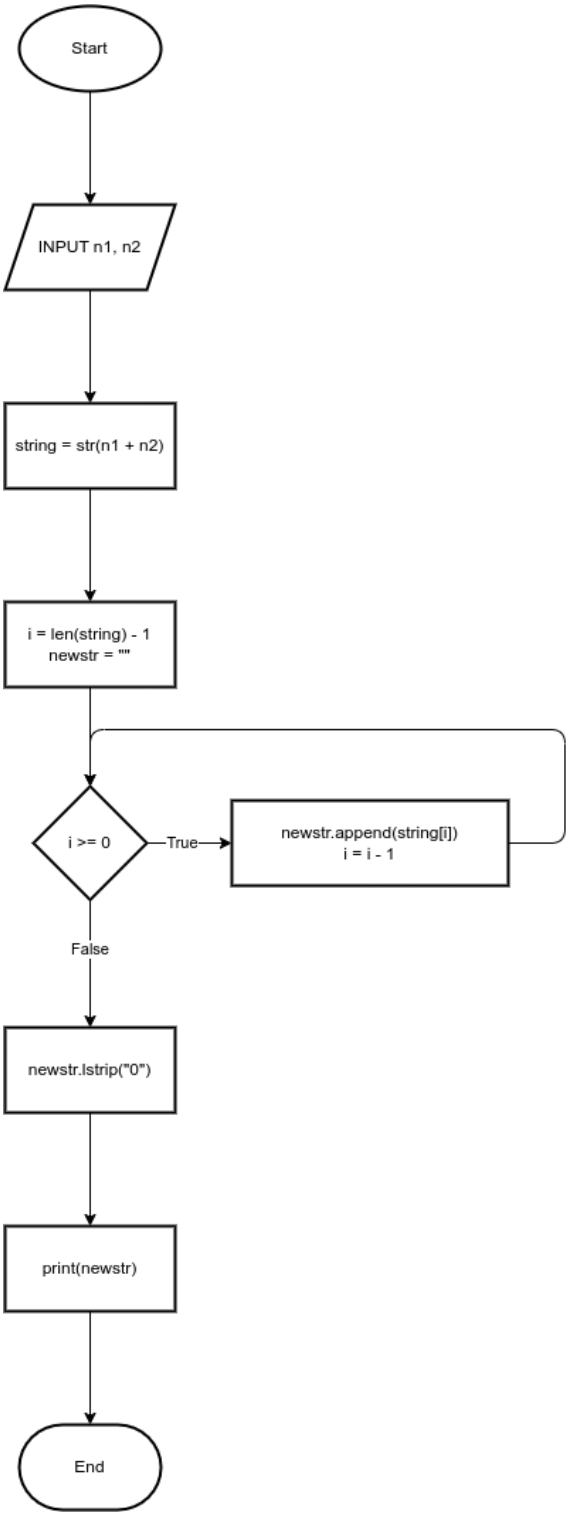
Mushroom exchanging

```
n, k = map(int, input().split())
ans = n
stem_cnt = n
while stem_cnt >= k:
    new_mushrooms = stem_cnt // k
    ans += new_mushrooms
    stem_cnt = stem_cnt % k + new_mushrooms
print(ans)
```



Reverse

```
print(str(sum(map(int, input().split())))[::-1].lstrip("0"))
```



Binary to decimal

```
sum = 0
for (idx, dig) in enumerate(reversed(list(input()))):
    if dig == "1": sum+= 2**idx
print(sum)
```