

# 1. 第二次作业编程第一题

## 【Problem Description】

A sequence of integers, where the first element is m and the second element is n, and each subsequent element after is the sum of the previous two elements. ( $-100 \leq n \leq 100$ ,  $-100 \leq m \leq 100$ )

For example, the sequence: 1, 1, 2, 3, 5, 8, 13, 21...

Write a program that can take integer values m and n as input, solve the sequence, save the sequence in a list, calculates the sum of the first 20 elements, and outputs the total.

## 【Input Format】

The first line of input represents the value of m.

The second line of input represents the value of n.

## 【Output Format】

Output the sum of the first 20 elements of the sequence. If the input data is not an integer number, output "illegal input".

## 【Input Sample】

1  
1

## 【Output Sample】

17710

```
1 m = input()
2 n = input()
3 sum = 0
4
5 try:
6     int(m)
7     int(n)
8 except ValueError:
9     print("illegal input")
10    exit()
11
12 list = [int(m), int(n)]
13 for i in range(18):
14     list.append(list[len(list) - 2] + list[len(list) - 1])
15
16 for i in list:
17     sum += i
18 print(sum)
19
20
```