# 57.2 和为 S 的连续正数序列

## 题目描述

[牛客网](https://www.nowcoder.com/practice/c451a3fd84b64cb19485dad758a55ebe?tpId=13&tqId=11194&tPage=1&rp=1&ru=/ta/coding-interviews&qru=/ta/coding-interviews/question-ranking&from=cyc_github)

## 题目描述

输出所有和为 S 的连续正数序列。例如和为 100 的连续序列有：

[9, 10, 11, 12, 13, 14, 15, 16]  
[18, 19, 20, 21, 22]。

## 解题思路

public ArrayList<ArrayList<Integer>> FindContinuousSequence(int sum) {  
 ArrayList<ArrayList<Integer>> ret = new ArrayList<>();  
 int start = 1, end = 2;  
 int curSum = 3;  
 while (end < sum) {  
 if (curSum > sum) {  
 curSum -= start;  
 start++;  
 } else if (curSum < sum) {  
 end++;  
 curSum += end;  
 } else {  
 ArrayList<Integer> list = new ArrayList<>();  
 for (int i = start; i <= end; i++)  
 list.add(i);  
 ret.add(list);  
 curSum -= start;  
 start++;  
 end++;  
 curSum += end;  
 }  
 }  
 return ret;  
}