Find Subarray with given sum | Set 1 (Non-negative Numbers)

Read Discuss(350+) Courses Practice Video

Given an array **arr[]** of non-negative integers and an integer **sum**, find a subarray that adds to a given **sum**.

Note: There may be more than one subarray with sum as the given sum, print first such subarray.

Examples:

Input: *arr[] = {1, 4, 20, 3, 10, 5}, sum = 33*
Output: *Sum found between indexes 2 and 4*
Explanation: *Sum of elements between indices 2 and 4 is 20 + 3 + 10 = 33*

curr < sum

O(n²)

curr = 20 +3 +10

1 4 20 3 10 5
0 1 2 3 4

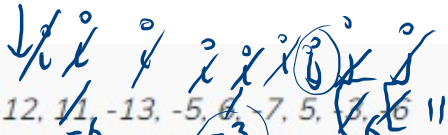
s e

curr = 1+4+20+3+10-1-4

1 4 20 3 10 5
0 1 2 3 4 5

s e

Sort -ve then +ve ⇒ sort 0 & 1



Input: -12, 11, -13, -5, 6, -7, 5, -3, -6 11

Output: -12 -13 -5 -7 -3 -6 11 6 5

recursion

n = 5

1
2
3
4
5

```
func(n){
  if (n==0)
  {
    return;
  }
  fun(n-1);
  print(n);
}
```

1
2
3
4
5

3
4
5

2

n = 5

for

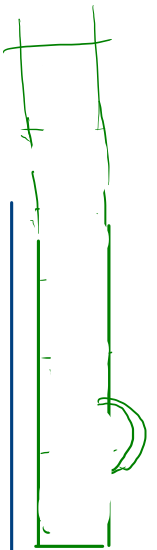
image

```
public static void func(int n){
    if(n == 0){
        return;
    }

    func(n-1);
    System.out.println(n);

}
```

1
2
3
4
5



n=5

5
4
3
2
1