

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

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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 $20 + 3 + 10 = 33$

$curr < sum$

$curr = 20$
 $+ 3$
 $+ 10$

1	4	20	3	10	5
0	1	2	3	4	
		↑		↑	
		8		e	

8 e

$O(n^2)$

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

1	4
0	1

20	3	10	5
2	3	4	5

8 e

Sort -ve then +ve \Rightarrow sort 0 & 1

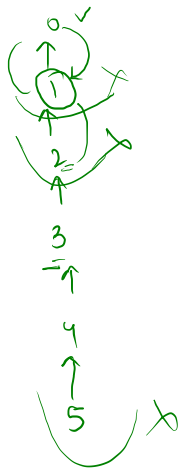
$$(i < j)$$

~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~ ~~51~~ ~~52~~ ~~53~~ ~~54~~ ~~55~~ ~~56~~ ~~57~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ ~~67~~ ~~68~~ ~~69~~ ~~70~~ ~~71~~ ~~72~~ ~~73~~ ~~74~~ ~~75~~ ~~76~~ ~~77~~ ~~78~~ ~~79~~ ~~80~~ ~~81~~ ~~82~~ ~~83~~ ~~84~~ ~~85~~ ~~86~~ ~~87~~ ~~88~~ ~~89~~ ~~90~~ ~~91~~ ~~92~~ ~~93~~ ~~94~~ ~~95~~ ~~96~~ ~~97~~ ~~98~~ ~~99~~ ~~100~~ ~~101~~ ~~102~~ ~~103~~ ~~104~~ ~~105~~ ~~106~~ ~~107~~ ~~108~~ ~~109~~ ~~110~~ ~~111~~ ~~112~~ ~~113~~ ~~114~~ ~~115~~ ~~116~~ ~~117~~ ~~118~~ ~~119~~ ~~120~~ ~~121~~ ~~122~~ ~~123~~ ~~124~~ ~~125~~ ~~126~~ ~~127~~ ~~128~~ ~~129~~ ~~130~~ ~~131~~ ~~132~~ ~~133~~ ~~134~~ ~~135~~ ~~136~~ ~~137~~ ~~138~~ 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recursion

$n = 5$

1
2
3
4
5



2

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

1
2
3
4
5

$n = 5$

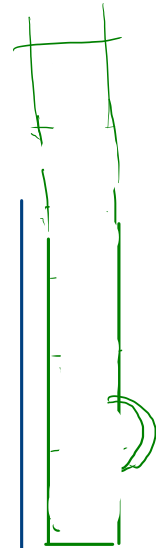


func



image

1
2
3
4
5



```
public static void func(int n){  
    1. if(n == 0){  
        return;  
    }  
    2. func(n-1);  
    3. System.out.println(n);  
}
```

$$n=5$$

5

4

3

2

1