Assignment
6 Aug.

```
for (int i=1; i<=30; i++) {
    is (i%3 ==0)
    s.o.p(i);
```

i<=30	is(i%3==0)	S.o.p()	o/P.
i<=30 ✓	1%.3 ==0 ✗		
2<=30	2%3==0 ✗		
3<=30	3%3==0 ✓	✓	3
4<=30	4%3==0 ✗		
5<=30	5%3==0 ✗		
6<=30	6%3==0 ✓	✓	6
7<=30	7%3==0 ✗		
8<=30	8%3==0 ✗		
9<=30	9%3==0 ✓	✓	9
10<=30	10%3==0 ✗		
11<=30	11%3==0 ✗		
12<=30	12%3==0 ✓	✓	12
13<=30	13%3==0 ✗		
14<=30	14%3==0 ✗		
15<=30	15%3==0 ✓	✓	15
16<=30	16%3==0 ✗		
17<=30	17%3==0 ✗		
18<=30	18%3==0 ✓	✓	18
19<=30	19%3==0 ✗		
20<=30	20%3==0 ✗		
21<=30	21%3==0 ✓	✓	21
22<=30	22%3==0 ✗		
23<=30	23%3==0 ✗		
24<=30	24%3==0 ✓	✓	24
25<=30	25%3==0 ✗		
26<=30	26%3==0 ✗		
27<=30	27%3==0 ✓	✓	27

28<=30   28%3==0 X   X
29<=30   29%3=_0 X   X
30<=30   30%3==0 L   L   30
31<=30 X

decomposition

$$for(i=1; i<=30; i++)\{$$
$$if(i\%3==0 \ \&\& \ i\%2==0)$$

i<=30	if(i%3==0)	(i%2==0)	S.O.P	S.OP	O/p	even o/p
1<=30	1%3==0 X	1%2==0 X				
2<=30	2%3==0 X	2%2==0 L				
3<=30	3%3==0 L	3%2==0 X		L	3	
4<=30	4%3==0 X	4%2==0 L				
5<=30	5%3==0 X	5%2==0 X				
6<=30	6%3==0 L	6%2==0 L	L	L	6	6
7<=30	7%3==0 X	7%2==0 X				
8<=30	8%3==0 X	8%2==0 L				
9<=30	9%3==0 L	9%2==0 X		L	9	
10<=30	10%3==0 X	10%2==0 L				
11<=30	11%3==0 X	11%2==0 X				
12<=30	12%3==0 L	12%2==0 L	L	L	12	12
13<=30	13%3==0 X	13%2==0 %				
14<=30	14%3==0 X	14%2==0 L				
15<=30	15%3==0 L	15%2==0 X		L	15	
16<=30	16%3==0 X	16%2==0 L				
17<=30	17%3==0 X	17%2==0 X				
18<=30	18%3==0 L	18%2==0 L	L	L	18	18
19<=30	19%3==0 X	19%2==0 X				
20<=30	20%3==0 X	20%2==0 L				
21<=30	21%3==0 L	21%2==0 X		L	21	
22<=30	22%3==0 X	22%2==0 L				

Scanned with CamScanner

$23 <= 30$	$23 \times 3 == 0$ ✗	$23 \% 2 == 0$ ✗			
$24 <= 30$	$24 y 3 == 0$ ✓	$24 y. 1 == 0$ ✓	✓	24	24
$25 << 30$	$25 y. 3 == 0$ ✗	$25 \% 1 == 0$ ✗			
$26 <= 30$	$26 y 3 == 0$ ✗	$26 \% 2 == 0$ ✓			
$27 <= 30$	$27 \times 3 == 0$ ✓	$27 \% 2 == 0$ ✗		✓ 27	
$28 <= 30$	$28 y 3 == 0$ ✗	$28 y 2 == 0$ ✓			
$29 <= 30$	$29 y. 3 == 0$ ✗	$29 y 2 == 0$ ✗			
$30 <= 30$	$30 \% 3 == 0$ ✓	$30 y. 2 == 0$ ✓	✓ ✓	30	30