

Sudo Code

Col	1	2	3	4	5	6	7
row 1				X			
2			X		X		
3		X				X	
4	X	X	X	X	X	X	X

Annotation: n (points to the 4th row)

```

for row in [1...4] {
  for col in [1...7] {
    if row == 4 || row + col == 5 || col - row == 3 {
      print("X"), terminator: ""
    } else {
      print(terminator: " ")
    }
  }
  print()
}

```

Annotations for code:

- $(n * 2) - 1$ points to the value 4 in the loop range.
- $n + 1$ points to the value 5 in the condition.
- $n - 1$ points to the value 3 in the condition.

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x		x		x		x
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$n = 10$
 $t = 2$

```
for row in 1...num {  
  for col in 1...(2*num)-1 {  
    if (row+col == (num+1) || col-row ==  
      print("x"), terminator: " ")  
    else if (row == num && col != t  
      print("x"), terminator: " ")  
    two = two + 2  
  }  
  else  
    print(terminator " ")  
  print()  
}
```