	Sean Poston
CS345 Honework 4	sean fosten
5. 16,15	
P 1 C, {S} 9	
P 1 1C, 1 C2 (S2) 9	
P 1 7 C, 1 - C, 1 Cn-1 {Sn}q	
to the transfer assertion because	74
6. I think I'm misundustanding the tautology associan because	
the initial assertion were always true, then y would be -2. Otherise it would take the second stage of the above:	
e 1 - C, 1 C, Ey:=23 y=2	
2. 115n {pmu := powr *x n ::= 1+1 } 17n	
12 1=9 3 5 (9 10) 70 (5,3 p 1 (9 =0)	
12 ri= a 3 S (a nd) 70 § S, 3 p 1 (q = 0) ai= 0	(9)
while r 7= d } Sz This is +rue. If a is 2 and d is 1, +lu	n it will
91=9+1 loop twice, laving r=0, d=1, q=2, q=2	
a = dq + r = 72 = 1(2) + 0 = 72 = 2	
05128=70=04/	
1 2 Al	
22x 1, a) Yes 8.) No b.) Yes e.) Yes	
b.) Yes e.) Yes c) No f.) No	
2) 100 4.) 100	
229 38 a.) O(x) « Q(x) b.) O(194x) = Q(199x)	
b) O(x2)= Ω(x2) e) O(og x) = Ω (og x)	
c) O(x)= D(x)	
242 Man While i kn b.) It would be O (n2)	
while i c nz	
if K	
true	

	P Design
242 12	for i to n => n
	For i to n =7 n
	for K to i =7 n
	meileil=mincmeileil, aex] =7 assignment
	n3 + assign
	$O(n^3)$
	0.)
	Carried St. St. St. St. St. St. St. St. St.
	To 10.9 1 2 3 3 72 72 3
	The state of the s
	The state of the s
	18 020 82 14 3 25