# Assign Trips to Drivers - Minimize Overlap I

Trip 1	6 minutes												
Trip 2						4 mir	nutes						
Trip 3							4 minutes						
Trip 4										5	minute	es	
Trip 5	5 minutes												

# Overlap Minutes

From\To	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	End
Start	0	0	0	0	0	0
Trip 1		2	0	0	4	0
Trip 2	8		1	0	9	0
Trip 3	11	7		3	12	0
Trip 4	13	9	6		14	0
Trip 5	4	0	0	0		0

## Assign Trips to Drivers - Minimize Overlap II

From\To	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	End
Start	0	0	0	0	0	0
Trip 1		2	0	0	4	0
Trip 2	8		1	0	9	0
Trip 3	11	7		3	12	0
Trip 4	13	9	6		14	0
Trip 5	4	0	0	0		0

Minimal Overlap: 0

Driver 1:

Start->1->3->end

Driver 2:

Start->5->2->4->end

From\To	Trip 1	Trip 2	Trip 3	Trip 4	Trip 5	End	Constraints
Start	X = 1				X =1		Sum = 2
Trip 1			X =1				Sum = 1
Trip 2				X = 1			Sum = 1
Trip 3						X = 1	Sum = 1
Trip 4						X = 1	Sum = 1
Trip 5		X = 1					Sum = 1
Constraints	Sum =1	Sum = 2					

## Assign Trips to Drivers - Minimize Overlap III

Trip 1	6 minutes											
Trip 2				4 mi								
Trip 3								4 minutes				
Trip 4									5	minute	es	
Trip 5	5 minutes											

### **Solution**

