

INPUT	PROCESS	OUTPUT
Input.txt (Data file)	Read first line	
	Scan file and compile matching number plates	
	Identify checkpoints passed through for each number plate	
	If vehicle passes through checkpoint 1,2 and 3, Then minus timestamp at 1 from checkpoint 2 and minus timestamp at checkpoint 2 from checkpoint 3	
	If vehicle passes through checkpoint 1 and 2 then minus timestamp at checkpoint 1 from checkpoint 2	
	If vehicle passes through checkpoint 2 and 3, minus checkpoint 2 from checkpoint 3	
	Calculate average speed of vehicle using times from above	
	If average speed > 110km/h then add number plate into speeding cars, with average speed and timestamp	Timestamp, checkpoint number, number plate and average speed of car which is speeding
	Loop from process 2 for number of times specified in line 1 of the input file	Complete list of speeding cars with; timestamp, checkpoint number, number plate and average speed