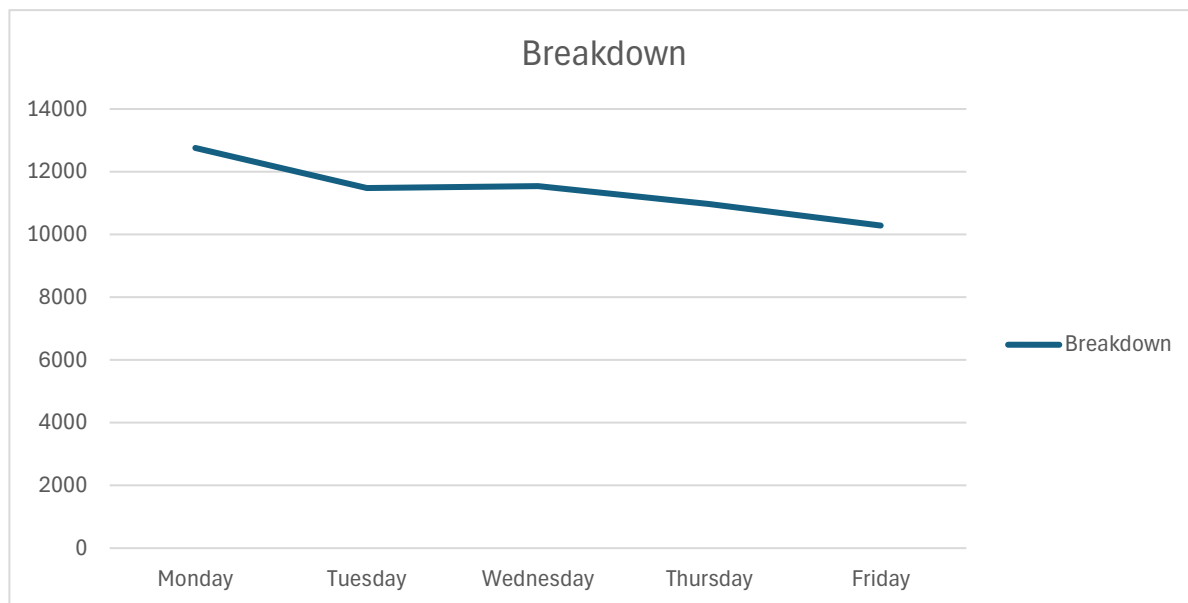


Is there a correlation between specific days of the week and the frequency of breakdowns or delays?

Count of Breakdown_or_Running_Late	Column Labels	
Row Labels	Breakdown	Grand Total
Monday	12759	12759
Tuesday	11477	11477
Wednesday	11544	11544
Thursday	10966	10966
Friday	10285	10285
Grand Total	57031	57031



Outcomes:

There is a huge spike in bus breakdowns on Monday and this decreases on Tuesday and increases slightly on Wednesday. On Fridays, fewer breakdowns are recorded compared to the rest of the days in the week.

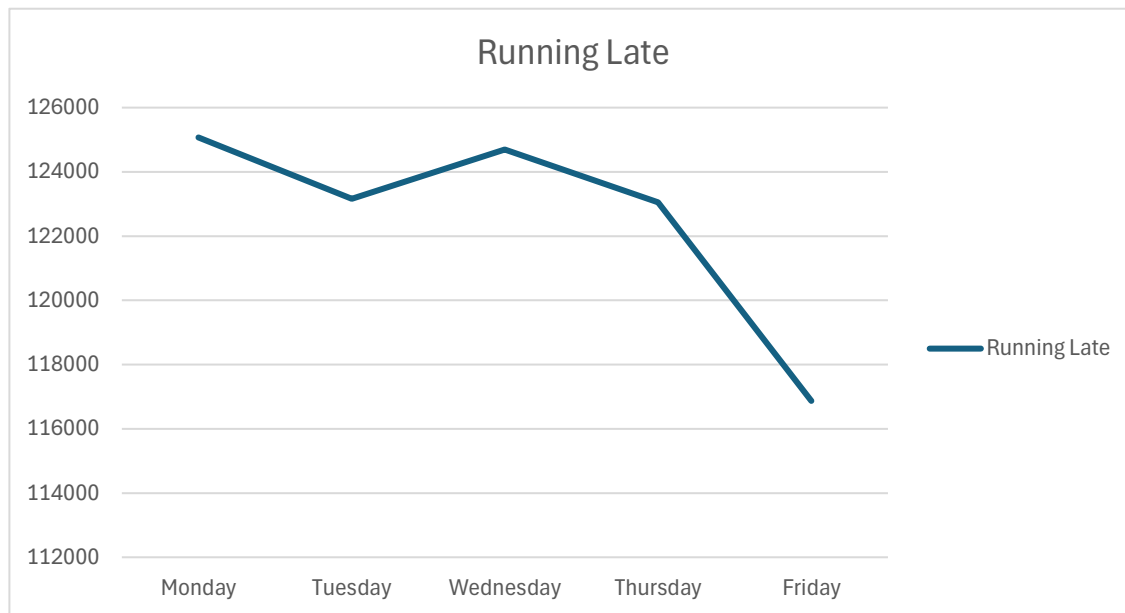
A combination of factors such as weekend maintenance, driver awareness, reduced traffic, driver fatigue, weather conditions, vehicle wear and tear, and maintenance scheduling may contribute to fewer school bus breakdowns on Fridays compared to Mondays in the boroughs. School buses typically undergo maintenance and servicing during the weekend when they are not in use. Buses that have been serviced over the weekend are less likely to experience breakdowns on Mondays compared to buses that have not received maintenance for a longer period. Mondays often see increased demand for transportation services as students return to school after the weekend. This increased demand may put

additional strain on school buses, leading to a higher likelihood of mechanical issues or breakdowns.

Suggestions:

School districts or bus companies should schedule routine maintenance tasks, such as oil changes or inspections, for Fridays or weekends to minimize disruption to daily operations during the week. Regular maintenance can help prevent breakdowns by identifying and addressing potential issues before they become more serious.

Count of Breakdown_or_Running_Late Row Labels	Column Labels	
	Running Late	Grand Total
Monday	125071	125071
Tuesday	123160	123160
Wednesday	124692	124692
Thursday	123048	123048
Friday	116869	116869
Grand Total	612840	612840



Outcomes:

There is a huge spike in buses running late on Monday and this decreases on Tuesday and increases

again on Wednesday. On Fridays, there are fewer delays recorded compared to the rest of the days in the week. Student attendance may be lower on Mondays due to factors such as illness or extended weekends, leading to fewer students waiting at bus stops. However, on Fridays, student attendance tends to be higher as students are less likely to miss school at the end of the week, which may result in quicker boarding and fewer delays. Overall, a combination of factors such as weekend maintenance, driver familiarity, increased traffic, student attendance, weather conditions, vehicle maintenance issues, and schedule adjustments may contribute to school buses running late on Mondays compared to Fridays in the boroughs.

Suggestions:

Better planning is needed over the weekend on how things will run on Monday. Parents, schools, and bus companies should communicate on time about any changes that might affect the normal schedule.