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```
import pandas as pd
import matplotlib.pyplot as plot

df= pd.read_csv(r"Cars Dataset.csv")
df
```

	Make	Model	Type	Origin	DriveTrain	MSRP
0	Acura	MDX	SUV	Asia	All	\$36,945
1	Acura	RSX Type S 2dr	Sedan	Asia	Front	\$23,820
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990
3	Acura	TL 4dr	Sedan	Asia	Front	\$33,195
4	Acura	3.5 RL 4dr	Sedan	Asia	Front	\$43,755
...	...	...	...	...	...	..
427	Volvo	C70 LPT convertible 2dr	Sedan	Europe	Front	\$40,565
428	Volvo	C70 HPT convertible 2dr	Sedan	Europe	Front	\$42,565
429	Volvo	S80 T6 4dr	Sedan	Europe	Front	\$45,210
430	Volvo	V40	Wagon	Europe	Front	\$26,135
431	Volvo	XC70	Wagon	Europe	All	\$35,145

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway
0	\$33,337	3.5	6.0	265.0	17.0	23.0
1	\$21,761	2.0	4.0	200.0	24.0	31.0
2	\$24,647	2.4	4.0	200.0	22.0	29.0
3	\$30,299	3.2	6.0	270.0	20.0	28.0
4	\$39,014	3.5	6.0	225.0	18.0	24.0
...	...	...	...	...	...	..
427	\$38,203	2.4	5.0	197.0	21.0	28.0
428	\$40,083	2.3	5.0	242.0	20.0	

26.0					
429	\$42,573	2.9	6.0	268.0	19.0
26.0					
430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
0	4451.0	106.0	189.0
1	2778.0	101.0	172.0
2	3230.0	105.0	183.0
3	3575.0	108.0	186.0
4	3880.0	115.0	197.0
...	...	...	...
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

[432 rows x 15 columns]

## Exploring Data

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 432 entries, 0 to 431
Data columns (total 15 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Make            428 non-null    object
1   Model           428 non-null    object
2   Type            428 non-null    object
3   Origin          428 non-null    object
4   DriveTrain      428 non-null    object
5   MSRP            428 non-null    object
6   Invoice          428 non-null    object
7   EngineSize      428 non-null    float64
8   Cylinders       426 non-null    float64
9   Horsepower      428 non-null    float64
10  MPG_City         428 non-null    float64
11  MPG_Highway      428 non-null    float64
12  Weight          428 non-null    float64
13  Wheelbase       428 non-null    float64
14  Length          428 non-null    float64
dtypes: float64(8), object(7)
memory usage: 50.8+ KB
```

```
df.index
```

```
RangeIndex(start=0, stop=432, step=1)
```

```
df.head()
```

	Make	Model	Type	Origin	DriveTrain	MSRP	Invoice
0	Acura	MDX	SUV	Asia	All	\$36,945	\$33,337
1	Acura	RSX Type S	2dr Sedan	Asia	Front	\$23,820	\$21,761
2	Acura	TSX	4dr Sedan	Asia	Front	\$26,990	\$24,647
3	Acura	TL	4dr Sedan	Asia	Front	\$33,195	\$30,299
4	Acura	3.5 RL	4dr Sedan	Asia	Front	\$43,755	\$39,014

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
0	3.5	6.0	265.0	17.0	23.0	4451.0
1	2.0	4.0	200.0	24.0	31.0	2778.0
2	2.4	4.0	200.0	22.0	29.0	3230.0
3	3.2	6.0	270.0	20.0	28.0	3575.0
4	3.5	6.0	225.0	18.0	24.0	3880.0

	Wheelbase	Length
0	106.0	189.0
1	101.0	172.0
2	105.0	183.0
3	108.0	186.0
4	115.0	197.0

```
df.tail()
```

	Make	Model	Type	Origin	DriveTrain	MSRP
427	Volvo	C70 LPT convertible	2dr Sedan	Europe	Front	\$40,565
428	Volvo	C70 HPT convertible	2dr Sedan	Europe	Front	\$42,565
429	Volvo	S80 T6	4dr Sedan	Europe	Front	\$45,210
430	Volvo	V40	Wagon	Europe	Front	\$26,135
431	Volvo	XC70	Wagon	Europe	All	\$35,145

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway
427	\$38,203	2.4	5.0	197.0	21.0	28.0

428	\$40,083	2.3	5.0	242.0	20.0
26.0					
429	\$42,573	2.9	6.0	268.0	19.0
26.0					
430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

df.dtypes

Make	object
Model	object
Type	object
Origin	object
DriveTrain	object
MSRP	object
Invoice	object
EngineSize	float64
Cylinders	float64
Horsepower	float64
MPG_City	float64
MPG_Highway	float64
Weight	float64
Wheelbase	float64
Length	float64

dtype: object

df.nunique()

Make	38
Model	425
Type	6
Origin	3
DriveTrain	3
MSRP	410
Invoice	425
EngineSize	43
Cylinders	7
Horsepower	110
MPG_City	28
MPG_Highway	33
Weight	348

```

Wheelbase      40
Length        67
dtype: int64

df['Type'].unique()

array(['SUV', 'Sedan', 'Sports', 'Wagon', nan, 'Truck', 'Hybrid'],
      dtype=object)

df['Origin'].unique()

array(['Asia', 'Europe', nan, 'USA'], dtype=object)

df['Type'].value_counts()

Type
Sedan      262
SUV         60
Sports      49
Wagon       30
Truck       24
Hybrid       3
Name: count, dtype: int64

df.columns

Index(['Make', 'Model', 'Type', 'Origin', 'DriveTrain', 'MSRP',
      'Invoice',
      'EngineSize', 'Cylinders', 'Horsepower', 'MPG_City',
      'MPG_Highway',
      'Weight', 'Wheelbase', 'Length'],
      dtype='object')

df.isnull().sum()

Make          4
Model         4
Type          4
Origin        4
DriveTrain    4
MSRP          4
Invoice       4
EngineSize    4
Cylinders     6
Horsepower    4
MPG_City      4
MPG_Highway   4
Weight        4
Wheelbase     4
Length        4
dtype: int64

```

```
df.shape
(432, 15)
```

## Data cleaning

```
df
```

	Make	Model	Type	Origin	DriveTrain	
MSRP	\					
0	Acura	MDX	SUV	Asia	All	\$36,945
1	Acura	RSX Type S 2dr	Sedan	Asia	Front	\$23,820
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990
3	Acura	TL 4dr	Sedan	Asia	Front	\$33,195
4	Acura	3.5 RL 4dr	Sedan	Asia	Front	\$43,755
..	...	...	...	...	...	..
.						
427	Volvo	C70 LPT convertible 2dr	Sedan	Europe	Front	\$40,565
428	Volvo	C70 HPT convertible 2dr	Sedan	Europe	Front	\$42,565
429	Volvo	S80 T6 4dr	Sedan	Europe	Front	\$45,210
430	Volvo	V40	Wagon	Europe	Front	\$26,135
431	Volvo	XC70	Wagon	Europe	All	\$35,145

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway	\				
0	\$33,337	3.5	6.0	265.0	17.0
23.0					
1	\$21,761	2.0	4.0	200.0	24.0
31.0					
2	\$24,647	2.4	4.0	200.0	22.0
29.0					
3	\$30,299	3.2	6.0	270.0	20.0
28.0					
4	\$39,014	3.5	6.0	225.0	18.0
24.0					
..	...	...	...	...	...
.					
427	\$38,203	2.4	5.0	197.0	21.0
28.0					
428	\$40,083	2.3	5.0	242.0	20.0

26.0					
429	\$42,573	2.9	6.0	268.0	19.0
26.0					
430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
0	4451.0	106.0	189.0
1	2778.0	101.0	172.0
2	3230.0	105.0	183.0
3	3575.0	108.0	186.0
4	3880.0	115.0	197.0
...	...	...	...
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

[432 rows x 15 columns]

```
df.isnull().sum()
```

```
Make      4
Model     4
Type      4
Origin    4
DriveTrain 4
MSRP      4
Invoice   4
EngineSize 4
Cylinders 6
Horsepower 4
MPG_City   4
MPG_Highway 4
Weight     4
Wheelbase  4
Length     4
dtype: int64
```

```
df.columns
```

```
Index(['Make', 'Model', 'Type', 'Origin', 'DriveTrain', 'MSRP',
      'Invoice',
      'EngineSize', 'Cylinders', 'Horsepower', 'MPG_City',
      'MPG_Highway',
      'Weight', 'Wheelbase', 'Length'],
      dtype='object')
```

```
column=['EngineSize', 'Cylinders', 'Horsepower', 'MPG_City',
'MPG_Highway',
'Weight', 'Wheelbase', 'Length']
```

```
for col in column:
    df[col].fillna(df[col].mean(),inplace=True)
```

```
df.isnull().sum()
```

```
Make          4
Model         4
Type          4
Origin        4
DriveTrain    4
MSRP          4
Invoice       4
EngineSize    0
Cylinders     0
Horsepower    0
MPG_City      0
MPG_Highway   0
Weight        0
Wheelbase     0
Length        0
dtype: int64
```

```
df.dropna(inplace=True)
```

```
df.isnull().sum()
```

```
Make          0
Model         0
Type          0
Origin        0
DriveTrain    0
MSRP          0
Invoice       0
EngineSize    0
Cylinders     0
Horsepower    0
MPG_City      0
MPG_Highway   0
Weight        0
Wheelbase     0
Length        0
dtype: int64
```

```
df
```

	Make	Model	Type	Origin	DriveTrain	
MSRP	\					
0	Acura	MDX	SUV	Asia	All	\$36,945



1	Acura	RSX	Type S	2dr	Sedan	Asia	Front	\$23,820
2	Acura		TSX	4dr	Sedan	Asia	Front	\$26,990
3	Acura		TL	4dr	Sedan	Asia	Front	\$33,195
4	Acura		3.5 RL	4dr	Sedan	Asia	Front	\$43,755
..	...		...	...	...	...	...	..
.								
427	Volvo	C70	LPT convertible	2dr	Sedan	Europe	Front	\$40,565
428	Volvo	C70	HPT convertible	2dr	Sedan	Europe	Front	\$42,565
429	Volvo		S80 T6	4dr	Sedan	Europe	Front	\$45,210
430	Volvo		V40	Wagon	Europe	Europe	Front	\$26,135
431	Volvo		XC70	Wagon	Europe	Europe	All	\$35,145
	Invoice	EngineSize	Cylinders	Horsepower	MPG_City			
MPG_Highway \								
0	\$33,337	3.5	6.0	265.0	17.0			
23.0								
1	\$21,761	2.0	4.0	200.0	24.0			
31.0								
2	\$24,647	2.4	4.0	200.0	22.0			
29.0								
3	\$30,299	3.2	6.0	270.0	20.0			
28.0								
4	\$39,014	3.5	6.0	225.0	18.0			
24.0								
..	...	...	...	...	...			
.								
427	\$38,203	2.4	5.0	197.0	21.0			
28.0								
428	\$40,083	2.3	5.0	242.0	20.0			
26.0								
429	\$42,573	2.9	6.0	268.0	19.0			
26.0								
430	\$24,641	1.9	4.0	170.0	22.0			
29.0								
431	\$33,112	2.5	5.0	208.0	20.0			
27.0								
	Weight	Wheelbase	Length					
0	4451.0	106.0	189.0					
1	2778.0	101.0	172.0					

2	3230.0	105.0	183.0
3	3575.0	108.0	186.0
4	3880.0	115.0	197.0
...	...	...	...
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

[428 rows x 15 columns]

```
df['Make'].value_counts()
```

Make

Toyota	28
Chevrolet	27
Mercedes-Benz	26
Ford	23
BMW	20
Audi	19
Honda	17
Nissan	17
Volkswagen	15
Chrysler	15
Dodge	13
Mitsubishi	13
Volvo	12
Jaguar	12
Hyundai	12
Subaru	11
Pontiac	11
Mazda	11
Lexus	11
Kia	11
Buick	9
Mercury	9
Lincoln	9
Saturn	8
Cadillac	8
Suzuki	8
Infiniti	8
GMC	8
Acura	7
Porsche	7
Saab	7
Land Rover	3
Oldsmobile	3
Jeep	3
Scion	2

```

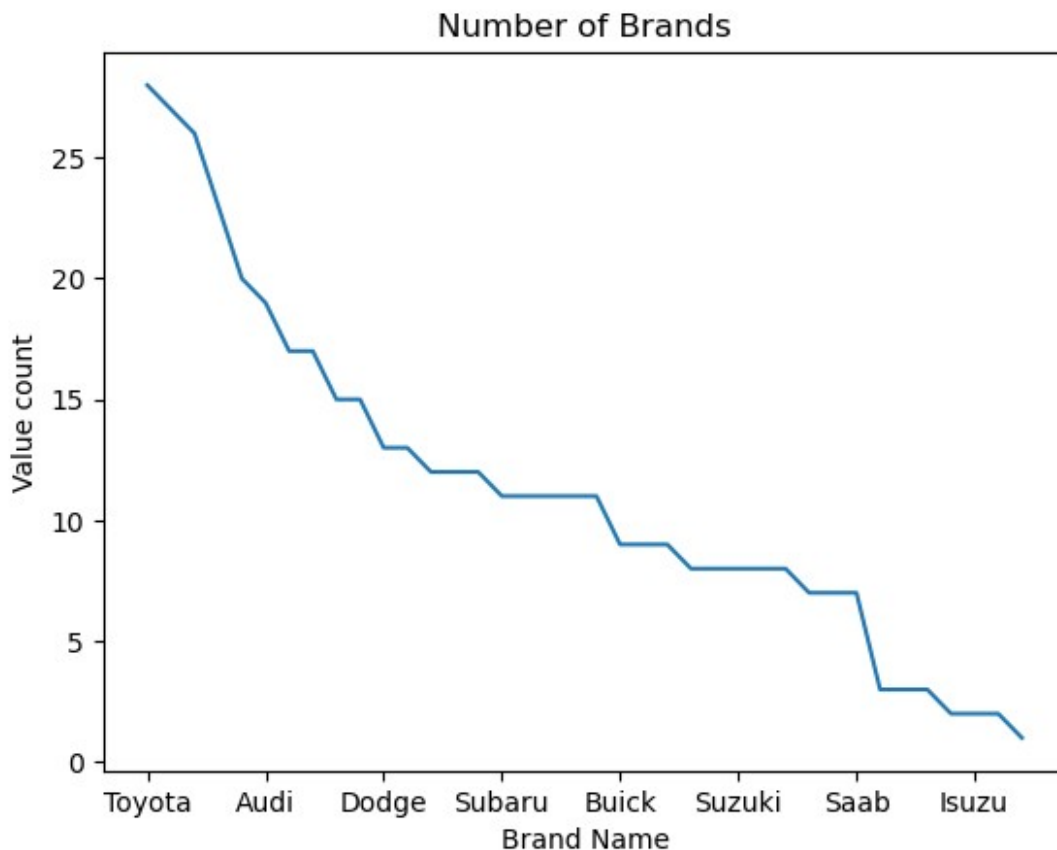
Isuzu          2
MINI           2
Hummer         1
Name: count, dtype: int64

makeplot = df['Make'].value_counts()

makeplot.plot(title='Number of Brands',xlabel='Brand
Name',ylabel='Value count')

<Axes: title={'center': 'Number of Brands'}, xlabel='Brand Name',
ylabel='Value count'>

```



Filtering: Show all the records from Asia or Europe.

```
df[(df['Origin']=='Asia') | (df['Origin']=='Europe')]
```

	Make	Model	Type	Origin	DriveTrain	
MSRP \						
0	Acura	MDX	SUV	Asia	All	\$36,945
1	Acura	RSX Type S 2dr	Sedan	Asia	Front	\$23,820
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990

3	Acura		TL 4dr	Sedan	Asia	Front	\$33,195
4	Acura		3.5 RL 4dr	Sedan	Asia	Front	\$43,755
..	...		...	...	...	...	..
.							
427	Volvo	C70 LPT convertible	2dr	Sedan	Europe	Front	\$40,565
428	Volvo	C70 HPT convertible	2dr	Sedan	Europe	Front	\$42,565
429	Volvo		S80 T6 4dr	Sedan	Europe	Front	\$45,210
430	Volvo		V40	Wagon	Europe	Front	\$26,135
431	Volvo		XC70	Wagon	Europe	All	\$35,145
	Invoice	EngineSize	Cylinders	Horsepower	MPG_City		
MPG_Highway \							
0	\$33,337	3.5	6.0	265.0	17.0		
23.0							
1	\$21,761	2.0	4.0	200.0	24.0		
31.0							
2	\$24,647	2.4	4.0	200.0	22.0		
29.0							
3	\$30,299	3.2	6.0	270.0	20.0		
28.0							
4	\$39,014	3.5	6.0	225.0	18.0		
24.0							
..	...	...	...	...	...	..	
.							
427	\$38,203	2.4	5.0	197.0	21.0		
28.0							
428	\$40,083	2.3	5.0	242.0	20.0		
26.0							
429	\$42,573	2.9	6.0	268.0	19.0		
26.0							
430	\$24,641	1.9	4.0	170.0	22.0		
29.0							
431	\$33,112	2.5	5.0	208.0	20.0		
27.0							
	Weight	Wheelbase	Length				
0	4451.0	106.0	189.0				
1	2778.0	101.0	172.0				
2	3230.0	105.0	183.0				
3	3575.0	108.0	186.0				
4	3880.0	115.0	197.0				
..	...	...	...				

427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

[281 rows x 15 columns]

```
df[(df['Origin']=='Asia') | (df['Origin']=='Europe')].count()
```

Make	281
Model	281
Type	281
Origin	281
DriveTrain	281
MSRP	281
Invoice	281
EngineSize	281
Cylinders	281
Horsepower	281
MPG_City	281
MPG_Highway	281
Weight	281
Wheelbase	281
Length	281
dtype:	int64

```
df[(df['Origin']=='Asia') | (df['Origin']=='Europe')].nunique()
```

Make	24
Model	278
Type	6
Origin	2
DriveTrain	3
MSRP	272
Invoice	278
EngineSize	34
Cylinders	7
Horsepower	93
MPG_City	26
MPG_Highway	31
Weight	235
Wheelbase	34
Length	53
dtype:	int64

Removing unwanted records: Remove all the records (rows) where Weight is above 4000.

df								
MSRP	Make \		Model	Type	Origin	DriveTrain		
0	Acura		MDX	SUV	Asia	All		\$36,945
1	Acura	RSX Type S	2dr	Sedan	Asia	Front		\$23,820
2	Acura	TSX	4dr	Sedan	Asia	Front		\$26,990
3	Acura	TL	4dr	Sedan	Asia	Front		\$33,195
4	Acura	3.5 RL	4dr	Sedan	Asia	Front		\$43,755
..	...		...	...	...	...		..
427	Volvo	C70 LPT convertible	2dr	Sedan	Europe	Front		\$40,565
428	Volvo	C70 HPT convertible	2dr	Sedan	Europe	Front		\$42,565
429	Volvo	S80 T6	4dr	Sedan	Europe	Front		\$45,210
430	Volvo		V40	Wagon	Europe	Front		\$26,135
431	Volvo		XC70	Wagon	Europe	All		\$35,145
MPG_Highway	Invoice	EngineSize	Cylinders	Horsepower	MPG_City			
0	\$33,337	3.5	6.0	265.0	17.0			
23.0								
1	\$21,761	2.0	4.0	200.0	24.0			
31.0								
2	\$24,647	2.4	4.0	200.0	22.0			
29.0								
3	\$30,299	3.2	6.0	270.0	20.0			
28.0								
4	\$39,014	3.5	6.0	225.0	18.0			
24.0								
..	...	...	...	...	...	...		..
427	\$38,203	2.4	5.0	197.0	21.0			
28.0								
428	\$40,083	2.3	5.0	242.0	20.0			
26.0								
429	\$42,573	2.9	6.0	268.0	19.0			
26.0								

430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
0	4451.0	106.0	189.0
1	2778.0	101.0	172.0
2	3230.0	105.0	183.0
3	3575.0	108.0	186.0
4	3880.0	115.0	197.0
..	...	...	...
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

[428 rows x 15 columns]

df[df['Weight']>4000]

	Make	Model	Type	Origin
DriveTrain \				
0	Acura	MDX	SUV	Asia
All				
15	Audi	A4 3.0 Quattro convertible 2dr	Sedan	Europe
All				
17	Audi	A6 4.2 Quattro 4dr	Sedan	Europe
All				
18	Audi	A8 L Quattro 4dr	Sedan	Europe
All				
20	Audi	RS 6 4dr	Sports	Europe
Front				
..	...	...	...	...
...				
405	Volkswagen	Touareg V6	SUV	Europe
All				
415	Volkswagen	Phaeton 4dr	Sedan	Europe
Front				
416	Volkswagen	Phaeton W12 4dr	Sedan	Europe
Front				
419	Volkswagen	Passat W8	Wagon	Europe
Front				
420	Volvo	XC90 T6	SUV	Europe
All				

	MSRP	Invoice	EngineSize	Cylinders	Horsepower
MPG_City \					
0	\$36,945	\$33,337	3.5	6.0	265.0
					17.0

15	\$44,240	\$40,075	3.0	6.0	220.0	18.0
17	\$49,690	\$44,936	4.2	8.0	300.0	17.0
18	\$69,190	\$64,740	4.2	8.0	330.0	17.0
20	\$84,600	\$76,417	4.2	8.0	450.0	15.0
..	...	...	...	...	...	...
405	\$35,515	\$32,243	3.2	6.0	220.0	15.0
415	\$65,000	\$59,912	4.2	8.0	335.0	16.0
416	\$75,000	\$69,130	6.0	12.0	420.0	12.0
419	\$40,235	\$36,956	4.0	8.0	270.0	18.0
420	\$41,250	\$38,851	2.9	6.0	268.0	15.0

	MPG_Highway	Weight	Wheelbase	Length
0	23.0	4451.0	106.0	189.0
15	25.0	4013.0	105.0	180.0
17	24.0	4024.0	109.0	193.0
18	24.0	4399.0	121.0	204.0
20	22.0	4024.0	109.0	191.0
..	...	...	...	...
405	20.0	5086.0	112.0	187.0
415	22.0	5194.0	118.0	204.0
416	19.0	5399.0	118.0	204.0
419	25.0	4067.0	106.0	184.0
420	20.0	4638.0	113.0	189.0

[103 rows x 15 columns]

```
df1=df[~(df['Weight']>4000)]
df1
```

	Make	Model	Type	Origin	DriveTrain	MSRP
1	Acura	RSX Type S 2dr	Sedan	Asia	Front	\$23,820
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990
3	Acura	TL 4dr	Sedan	Asia	Front	\$33,195
4	Acura	3.5 RL 4dr	Sedan	Asia	Front	\$43,755
5	Acura	3.5 RL w/Navigation 4dr	Sedan	Asia	Front	\$46,100



..	...	...	...	...	...	..
427	Volvo	C70 LPT convertible	2dr	Sedan	Europe	Front \$40,565
428	Volvo	C70 HPT convertible	2dr	Sedan	Europe	Front \$42,565
429	Volvo	S80 T6	4dr	Sedan	Europe	Front \$45,210
430	Volvo	V40	Wagon	Europe	Front	\$26,135
431	Volvo	XC70	Wagon	Europe	All	\$35,145

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
--	---------	------------	-----------	------------	----------

MPG_Highway \					
1	\$21,761	2.0	4.0	200.0	24.0
31.0					
2	\$24,647	2.4	4.0	200.0	22.0
29.0					
3	\$30,299	3.2	6.0	270.0	20.0
28.0					
4	\$39,014	3.5	6.0	225.0	18.0
24.0					
5	\$41,100	3.5	6.0	225.0	18.0
24.0					

..	...	...	...	...	...	..
----	-----	-----	-----	-----	-----	----

427	\$38,203	2.4	5.0	197.0	21.0
28.0					
428	\$40,083	2.3	5.0	242.0	20.0
26.0					
429	\$42,573	2.9	6.0	268.0	19.0
26.0					
430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
1	2778.0	101.0	172.0
2	3230.0	105.0	183.0
3	3575.0	108.0	186.0
4	3880.0	115.0	197.0
5	3893.0	115.0	197.0
..	...	...	...
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0

```
431  3823.0      109.0   186.0
```

```
[325 rows x 15 columns]
```

Applying function on a column: Increase all the values of 'MPG\_City' column by 3.

```
df1['MPG_City']
```

```
1      24.0
2      22.0
3      20.0
4      18.0
5      18.0
```

```
...
```

```
427    21.0
428    20.0
429    19.0
430    22.0
431    20.0
```

```
Name: MPG_City, Length: 325, dtype: float64
```

```
df1['MPG_City']
```

```
1      24.0
2      22.0
3      20.0
4      18.0
5      18.0
```

```
...
```

```
427    21.0
428    20.0
429    19.0
430    22.0
431    20.0
```

```
Name: MPG_City, Length: 325, dtype: float64
```

## Price Breakdown

```
df.head()
```

	Make	Model	Type	Origin	DriveTrain	MSRP	Invoice
0	Acura	MDX	SUV	Asia	All	\$36,945	\$33,337
1	Acura	RSX Type S	2dr Sedan	Asia	Front	\$23,820	\$21,761
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990	\$24,647

3	Acura	TL 4dr	Sedan	Asia	Front	\$33,195	\$30,299
4	Acura	3.5 RL 4dr	Sedan	Asia	Front	\$43,755	\$39,014

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight \
0	3.5	6.0	265.0	17.0	23.0	4451.0
1	2.0	4.0	200.0	24.0	31.0	2778.0
2	2.4	4.0	200.0	22.0	29.0	3230.0
3	3.2	6.0	270.0	20.0	28.0	3575.0
4	3.5	6.0	225.0	18.0	24.0	3880.0

	Wheelbase	Length
0	106.0	189.0
1	101.0	172.0
2	105.0	183.0
3	108.0	186.0
4	115.0	197.0

df.dtypes

```

Make          object
Model         object
Type          object
Origin        object
DriveTrain    object
MSRP          object
Invoice       object
EngineSize    float64
Cylinders     float64
Horsepower    float64
MPG_City      float64
MPG_Highway   float64
Weight        float64
Wheelbase     float64
Length        float64
dtype: object

```

df

	Make	Model	Type	Origin	DriveTrain	MSRP \
0	Acura	MDX	SUV	Asia	All	\$36,945
1	Acura	RSX Type S 2dr	Sedan	Asia	Front	\$23,820
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990
3	Acura	TL 4dr	Sedan	Asia	Front	\$33,195
4	Acura	3.5 RL 4dr	Sedan	Asia	Front	\$43,755

..	...	...	...	...	...	..
427	Volvo	C70 LPT convertible	2dr	Sedan	Europe	Front \$40,565
428	Volvo	C70 HPT convertible	2dr	Sedan	Europe	Front \$42,565
429	Volvo	S80 T6	4dr	Sedan	Europe	Front \$45,210
430	Volvo	V40	Wagon	Europe	Front	\$26,135
431	Volvo	XC70	Wagon	Europe	All	\$35,145

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					

0	\$33,337	3.5	6.0	265.0	17.0
23.0					
1	\$21,761	2.0	4.0	200.0	24.0
31.0					
2	\$24,647	2.4	4.0	200.0	22.0
29.0					
3	\$30,299	3.2	6.0	270.0	20.0
28.0					
4	\$39,014	3.5	6.0	225.0	18.0
24.0					

..	...	...	...	...	...	..
----	-----	-----	-----	-----	-----	----

427	\$38,203	2.4	5.0	197.0	21.0
28.0					
428	\$40,083	2.3	5.0	242.0	20.0
26.0					
429	\$42,573	2.9	6.0	268.0	19.0
26.0					
430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
0	4451.0	106.0	189.0
1	2778.0	101.0	172.0
2	3230.0	105.0	183.0
3	3575.0	108.0	186.0
4	3880.0	115.0	197.0
..	...	...	...
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0

```
431 3823.0      109.0  186.0
```

```
[428 rows x 15 columns]
```

```
df.dtypes
```

```
Make      object
Model     object
Type      object
Origin    object
DriveTrain object
MSRP      object
Invoice   object
EngineSize float64
Cylinders float64
Horsepower float64
MPG_City  float64
MPG_Highway float64
Weight    float64
Wheelbase float64
Length    float64
dtype: object
```

```
df.describe()
```

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	\
count	428.000000	428.000000	428.000000	428.000000	428.000000	
mean	3.196729	5.807512	215.885514	20.060748	26.843458	
std	1.108595	1.554789	71.836032	5.238218	5.741201	
min	1.300000	3.000000	73.000000	10.000000	12.000000	
25%	2.375000	4.000000	165.000000	17.000000	24.000000	
50%	3.000000	6.000000	210.000000	19.000000	26.000000	
75%	3.900000	6.000000	255.000000	21.250000	29.000000	
max	8.300000	12.000000	500.000000	60.000000	66.000000	

	Weight	Wheelbase	Length
count	428.000000	428.000000	428.000000
mean	3577.953271	108.154206	186.362150
std	758.983215	8.311813	14.357991
min	1850.000000	89.000000	143.000000
25%	3104.000000	103.000000	178.000000
50%	3474.500000	107.000000	187.000000
75%	3977.750000	112.000000	194.000000
max	7190.000000	144.000000	238.000000

```
df['MSRP'].min()
```

```
'$10,280 '
```

```
df[df['MSRP']==10280]
```

```
Empty DataFrame
Columns: [Make, Model, Type, Origin, DriveTrain, MSRP, Invoice,
EngineSize, Cylinders, Horsepower, MPG_City, MPG_Highway, Weight,
Wheelbase, Length]
Index: []
```

```
df['MSRP'].max()
```

```
'$94,820 '
```

```
df[df['MSRP']==192465]
```

```
Empty DataFrame
Columns: [Make, Model, Type, Origin, DriveTrain, MSRP, Invoice,
EngineSize, Cylinders, Horsepower, MPG_City, MPG_Highway, Weight,
Wheelbase, Length]
Index: []
```

```
df['Length'].mean()
```

```
186.36214953271028
```

```
df.groupby('Make')['MSRP'].describe()
```

	count	unique	top	freq
Make				
Acura	7	7	\$36,945	1
Audi	19	18	\$35,940	2
BMW	20	20	\$37,000	1
Buick	9	9	\$37,895	1
Cadillac	8	8	\$52,795	1
Chevrolet	27	27	\$42,735	1
Chrysler	15	15	\$17,985	1
Dodge	13	13	\$32,235	1
Ford	23	23	\$41,475	1
GMC	8	8	\$31,890	1
Honda	17	16	\$19,860	2
Hummer	1	1	\$49,995	1
Hyundai	12	11	\$15,389	2
Infiniti	8	8	\$28,495	1
Isuzu	2	2	\$31,849	1
Jaguar	12	11	\$74,995	2
Jeep	3	3	\$27,905	1
Kia	11	11	\$19,635	1
Land Rover	3	3	\$72,250	1
Lexus	11	11	\$45,700	1
Lincoln	9	9	\$52,775	1
MINI	2	2	\$16,999	1
Mazda	11	11	\$21,087	1
Mercedes-Benz	26	26	\$76,870	1
Mercury	9	9	\$29,995	1

Mitsubishi	13	13	\$30,492	1
Nissan	17	17	\$33,840	1
Oldsmobile	3	3	\$18,825	1
Pontiac	11	11	\$21,595	1
Porsche	7	7	\$56,665	1
Saab	7	7	\$30,860	1
Saturn	8	8	\$20,585	1
Scion	2	2	\$12,965	1
Subaru	11	10	\$31,545	2
Suzuki	8	8	\$23,699	1
Toyota	28	28	\$20,510	1
Volkswagen	15	14	\$21,055	2
Volvo	12	12	\$41,250	1

```
g=df.groupby('Make')
```

```
for make, origin in g:
    print(make)
    print(origin)
```

Acura						
Make		Model	Type	Origin	DriveTrain	MSRP
\						
0	Acura	MDX	SUV	Asia	All	\$36,945
1	Acura	RSX Type S 2dr	Sedan	Asia	Front	\$23,820
2	Acura	TSX 4dr	Sedan	Asia	Front	\$26,990
3	Acura	TL 4dr	Sedan	Asia	Front	\$33,195
4	Acura	3.5 RL 4dr	Sedan	Asia	Front	\$43,755
5	Acura	3.5 RL w/Navigation 4dr	Sedan	Asia	Front	\$46,100
6	Acura	NSX coupe 2dr manual S	Sports	Asia	Rear	\$89,765

Invoice Weight \						
EngineSize		Cylinders	Horsepower	MPG_City	MPG_Highway	
0	\$33,337	3.5	6.0	265.0	17.0	23.0
1	\$21,761	2.0	4.0	200.0	24.0	31.0
2	\$24,647	2.4	4.0	200.0	22.0	29.0
3	\$30,299	3.2	6.0	270.0	20.0	28.0
4	\$39,014	3.5	6.0	225.0	18.0	24.0
5	\$41,100	3.5	6.0	225.0	18.0	24.0

3893.0						
6	\$79,978	3.2	6.0	290.0	17.0	24.0
3153.0						

	Wheelbase	Length
0	106.0	189.0
1	101.0	172.0
2	105.0	183.0
3	108.0	186.0
4	115.0	197.0
5	115.0	197.0
6	100.0	174.0

Audi						
\	Make	Model	Type	Origin	DriveTrain	
7	Audi	A4 1.8T 4dr	Sedan	Europe	Front	
8	Audi	A4 1.8T convertible 2dr	Sedan	Europe	Front	
9	Audi	A4 3.0 4dr	Sedan	Europe	Front	
10	Audi	A4 3.0 Quattro 4dr manual	Sedan	Europe	All	
11	Audi	A4 3.0 Quattro 4dr auto	Sedan	Europe	All	
12	Audi	A6 3.0 4dr	Sedan	Europe	Front	
13	Audi	A6 3.0 Quattro 4dr	Sedan	Europe	All	
14	Audi	A4 3.0 convertible 2dr	Sedan	Europe	Front	
15	Audi	A4 3.0 Quattro convertible 2dr	Sedan	Europe	All	
16	Audi	A6 2.7 Turbo Quattro 4dr	Sedan	Europe	All	
17	Audi	A6 4.2 Quattro 4dr	Sedan	Europe	All	
18	Audi	A8 L Quattro 4dr	Sedan	Europe	All	
19	Audi	S4 Quattro 4dr	Sedan	Europe	All	
20	Audi	RS 6 4dr	Sports	Europe	Front	
21	Audi	TT 1.8 convertible 2dr (coupe)	Sports	Europe	Front	
22	Audi	TT 1.8 Quattro 2dr (convertible)	Sports	Europe	All	
23	Audi	TT 3.2 coupe 2dr (convertible)	Sports	Europe	All	
24	Audi	A6 3.0 Avant Quattro	Wagon	Europe	All	



25	Audi	S4 Avant Quattro		Wagon	Europe	All
	MSRP	Invoice	EngineSize	Cylinders	Horsepower	MPG_City \
7	\$25,940	\$23,508	1.8	4.0	170.0	22.0
8	\$35,940	\$32,506	1.8	4.0	170.0	23.0
9	\$31,840	\$28,846	3.0	6.0	220.0	20.0
10	\$33,430	\$30,366	3.0	6.0	220.0	17.0
11	\$34,480	\$31,388	3.0	6.0	220.0	18.0
12	\$36,640	\$33,129	3.0	6.0	220.0	20.0
13	\$39,640	\$35,992	3.0	6.0	220.0	18.0
14	\$42,490	\$38,325	3.0	6.0	220.0	20.0
15	\$44,240	\$40,075	3.0	6.0	220.0	18.0
16	\$42,840	\$38,840	2.7	6.0	250.0	18.0
17	\$49,690	\$44,936	4.2	8.0	300.0	17.0
18	\$69,190	\$64,740	4.2	8.0	330.0	17.0
19	\$48,040	\$43,556	4.2	8.0	340.0	14.0
20	\$84,600	\$76,417	4.2	8.0	450.0	15.0
21	\$35,940	\$32,512	1.8	4.0	180.0	20.0
22	\$37,390	\$33,891	1.8	4.0	225.0	20.0
23	\$40,590	\$36,739	3.2	6.0	250.0	21.0
24	\$40,840	\$37,060	3.0	6.0	220.0	18.0
25	\$49,090	\$44,446	4.2	8.0	340.0	15.0
	MPG_Highway	Weight	Wheelbase	Length		
7	31.0	3252.0	104.0	179.0		
8	30.0	3638.0	105.0	180.0		
9	28.0	3462.0	104.0	179.0		
10	26.0	3583.0	104.0	179.0		
11	25.0	3627.0	104.0	179.0		
12	27.0	3561.0	109.0	192.0		
13	25.0	3880.0	109.0	192.0		
14	27.0	3814.0	105.0	180.0		
15	25.0	4013.0	105.0	180.0		
16	25.0	3836.0	109.0	192.0		
17	24.0	4024.0	109.0	193.0		
18	24.0	4399.0	121.0	204.0		
19	20.0	3825.0	104.0	179.0		
20	22.0	4024.0	109.0	191.0		
21	28.0	3131.0	95.0	159.0		
22	28.0	2921.0	96.0	159.0		
23	29.0	3351.0	96.0	159.0		
24	25.0	4035.0	109.0	192.0		
25	21.0	3936.0	104.0	179.0		
BMW						
	Make	Model	Type	Origin	DriveTrain	MSRP
26	BMW	X3 3.0i	SUV	Europe	All	\$37,000
27	BMW	X5 4.4i	SUV	Europe	All	\$52,195

28	BMW	325i	4dr	Sedan	Europe	Rear	\$28,495
29	BMW	325Ci	2dr	Sedan	Europe	Rear	\$30,795
31	BMW	325Ci convertible	2dr	Sedan	Europe	Rear	\$37,995
32	BMW	325xi	4dr	Sedan	Europe	All	\$30,245
33	BMW	330i	4dr	Sedan	Europe	Rear	\$35,495
34	BMW	330Ci	2dr	Sedan	Europe	Rear	\$36,995
35	BMW	330xi	4dr	Sedan	Europe	All	\$37,245
36	BMW	525i	4dr	Sedan	Europe	Rear	\$39,995
37	BMW	330Ci convertible	2dr	Sedan	Europe	Rear	\$44,295
38	BMW	530i	4dr	Sedan	Europe	Rear	\$44,995
40	BMW	545iA	4dr	Sedan	Europe	Rear	\$54,995
41	BMW	745i	4dr	Sedan	Europe	Rear	\$69,195
42	BMW	745Li	4dr	Sedan	Europe	Rear	\$73,195
43	BMW	M3 coupe	2dr	Sports	Europe	Rear	\$48,195
44	BMW	M3 convertible	2dr	Sports	Europe	Rear	\$56,595
45	BMW	Z4 convertible 2.5i	2dr	Sports	Europe	Rear	\$33,895
46	BMW	Z4 convertible 3.0i	2dr	Sports	Europe	Rear	\$41,045
47	BMW	325xi Sport	Wagon	Europe	All	\$32,845	
	Invoice	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	
26	\$33,873	3.0	6.0	225.0	16.0	23.0	
27	\$47,720	4.4	8.0	325.0	16.0	22.0	
28	\$26,155	2.5	6.0	184.0	20.0	29.0	
29	\$28,245	2.5	6.0	184.0	20.0	29.0	
31	\$34,800	2.5	6.0	184.0	19.0	27.0	
32	\$27,745	2.5	6.0	184.0	19.0	27.0	

33	\$32,525	3.0	6.0	225.0	20.0	30.0
34	\$33,890	3.0	6.0	225.0	20.0	30.0
35	\$34,115	3.0	6.0	225.0	20.0	29.0
36	\$36,620	2.5	6.0	184.0	19.0	28.0
37	\$40,530	3.0	6.0	225.0	19.0	28.0
38	\$41,170	3.0	6.0	225.0	20.0	30.0
40	\$50,270	4.4	8.0	325.0	18.0	26.0
41	\$63,190	4.4	8.0	325.0	18.0	26.0
42	\$66,830	4.4	8.0	325.0	18.0	26.0
43	\$44,170	3.2	6.0	333.0	16.0	24.0
44	\$51,815	3.2	6.0	333.0	16.0	23.0
45	\$31,065	2.5	6.0	184.0	20.0	28.0
46	\$37,575	3.0	6.0	225.0	21.0	29.0
47	\$30,110	2.5	6.0	184.0	19.0	26.0

	Weight	Wheelbase	Length
26	4023.0	110.0	180.0
27	4824.0	111.0	184.0
28	3219.0	107.0	176.0
29	3197.0	107.0	177.0
31	3560.0	107.0	177.0
32	3461.0	107.0	176.0
33	3285.0	107.0	176.0
34	3285.0	107.0	176.0
35	3483.0	107.0	176.0
36	3428.0	114.0	191.0
37	3616.0	107.0	177.0
38	3472.0	114.0	191.0
40	3814.0	114.0	191.0
41	4376.0	118.0	198.0
42	4464.0	123.0	204.0
43	3415.0	108.0	177.0
44	3781.0	108.0	177.0
45	2932.0	98.0	161.0
46	2998.0	98.0	161.0
47	3594.0	107.0	176.0
Buick			

Make		Model	Type	Origin	DriveTrain	MSRP
Invoice \						
48	Buick	Rainier	SUV	USA	All	\$37,895
\$34,357						
49	Buick	Rendezvous CX	SUV	USA	Front	\$26,545
\$24,085						
50	Buick	Century Custom 4dr	Sedan	USA	Front	\$22,180
\$20,351						
51	Buick	LeSabre Custom 4dr	Sedan	USA	Front	\$26,470
\$24,282						
52	Buick	Regal LS 4dr	Sedan	USA	Front	\$24,895
\$22,835						
53	Buick	Regal GS 4dr	Sedan	USA	Front	\$28,345
\$26,047						
54	Buick	LeSabre Limited 4dr	Sedan	USA	Front	\$32,245
\$29,566						
55	Buick	Park Avenue 4dr	Sedan	USA	Front	\$35,545
\$32,244						
56	Buick	Park Avenue Ultra 4dr	Sedan	USA	Front	\$40,720
\$36,927						
EngineSize		Cylinders	Horsepower	MPG_City	MPG_Highway	
Weight \						
48	4.2	6.0	275.0	15.0	21.0	4600.0
49	3.4	6.0	185.0	19.0	26.0	4024.0
50	3.1	6.0	175.0	20.0	30.0	3353.0
51	3.8	6.0	205.0	20.0	29.0	3567.0
52	3.8	6.0	200.0	20.0	30.0	3461.0
53	3.8	6.0	240.0	18.0	28.0	3536.0
54	3.8	6.0	205.0	20.0	29.0	3591.0
55	3.8	6.0	205.0	20.0	29.0	3778.0
56	3.8	6.0	240.0	18.0	28.0	3909.0
Wheelbase		Length				
48	113.0	193.0				
49	112.0	187.0				
50	109.0	195.0				
51	112.0	200.0				
52	109.0	196.0				
53	109.0	196.0				
54	112.0	200.0				

55      114.0    207.0  
 56      114.0    207.0

Cadillac

\		Make	Model	Type	Origin	DriveTrain	MSRP
57	Cadillac		Escalade	SUV	USA	Front	\$52,795
58	Cadillac		SRX V8	SUV	USA	Front	\$46,995
59	Cadillac		CTS VVT 4dr	Sedan	USA	Rear	\$30,835
60	Cadillac		Deville 4dr	Sedan	USA	Front	\$45,445
61	Cadillac		Deville DTS 4dr	Sedan	USA	Front	\$50,595
62	Cadillac		Seville SLS 4dr	Sedan	USA	Front	\$47,955
63	Cadillac	XLR convertible	2dr	Sports	USA	Rear	\$76,200
64	Cadillac		Escalade EXT	Truck	USA	All	\$52,975

\		Invoice	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway
57	\$48,377		5.3	8.0	295.0	14.0	18.0
58	\$43,523		4.6	8.0	320.0	16.0	21.0
59	\$28,575		3.6	6.0	255.0	18.0	25.0
60	\$41,650		4.6	8.0	275.0	18.0	26.0
61	\$46,362		4.6	8.0	300.0	18.0	26.0
62	\$43,841		4.6	8.0	275.0	18.0	26.0
63	\$70,546		4.6	8.0	320.0	17.0	25.0
64	\$48,541		6.0	8.0	345.0	13.0	17.0

\		Weight	Wheelbase	Length
57	5367.0		116.0	199.0
58	4302.0		116.0	195.0
59	3694.0		113.0	190.0
60	3984.0		115.0	207.0
61	4044.0		115.0	207.0
62	3992.0		112.0	201.0
63	3647.0		106.0	178.0
64	5879.0		130.0	221.0

Chevrolet

MSRP \	Make	Model	Type	Origin	DriveTrain
65 Chevrolet		Suburban 1500 LT	SUV	USA	Front
\$42,735					
66 Chevrolet		Tahoe LT	SUV	USA	All
\$41,465					
67 Chevrolet		TrailBlazer LT	SUV	USA	Front
\$30,295					
68 Chevrolet		Tracker	SUV	USA	Front
\$20,255					
69 Chevrolet		Aveo 4dr	Sedan	USA	Front
\$11,690					
70 Chevrolet		Aveo LS 4dr hatch	Sedan	USA	Front
\$12,585					
71 Chevrolet		Cavalier 2dr	Sedan	USA	Front
\$14,610					
72 Chevrolet		Cavalier 4dr	Sedan	USA	Front
\$14,810					
73 Chevrolet		Cavalier LS 2dr	Sedan	USA	Front
\$16,385					
74 Chevrolet		Impala 4dr	Sedan	USA	Front
\$21,900					
75 Chevrolet		Malibu 4dr	Sedan	USA	Front
\$18,995					
76 Chevrolet		Malibu LS 4dr	Sedan	USA	Front
\$20,370					
77 Chevrolet		Monte Carlo LS 2dr	Sedan	USA	Front
\$21,825					
78 Chevrolet		Impala LS 4dr	Sedan	USA	Front
\$25,000					
79 Chevrolet		Impala SS 4dr	Sedan	USA	Front
\$27,995					
80 Chevrolet		Malibu LT 4dr	Sedan	USA	Front
\$23,495					
81 Chevrolet		Monte Carlo SS 2dr	Sedan	USA	Front
\$24,225					
82 Chevrolet		Astro	Sedan	USA	All
\$26,395					
83 Chevrolet		Venture LS	Sedan	USA	Front
\$27,020					
84 Chevrolet		Corvette 2dr	Sports	USA	Rear
\$44,535					
85 Chevrolet	Corvette convertible 2dr		Sports	USA	Rear
\$51,535					
86 Chevrolet		Avalanche 1500	Truck	USA	All
\$36,100					
87 Chevrolet		Colorado Z85	Truck	USA	All
\$18,760					
88 Chevrolet	Silverado 1500 Regular Cab		Truck	USA	Rear

\$20,310						
89	Chevrolet		Silverado SS	Truck	USA	All
\$40,340						
90	Chevrolet		SSR	Truck	USA	Rear
\$41,995						
91	Chevrolet		Malibu Maxx LS	Wagon	USA	Front
\$22,225						
	Invoice	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway
\						
65	\$37,422	5.3	8.0	295.0	14.0	18.0
66	\$36,287	5.3	8.0	295.0	14.0	18.0
67	\$27,479	4.2	6.0	275.0	16.0	21.0
68	\$19,108	2.5	6.0	165.0	19.0	22.0
69	\$10,965	1.6	4.0	103.0	28.0	34.0
70	\$11,802	1.6	4.0	103.0	28.0	34.0
71	\$13,697	2.2	4.0	140.0	26.0	37.0
72	\$13,884	2.2	4.0	140.0	26.0	37.0
73	\$15,357	2.2	4.0	140.0	26.0	37.0
74	\$20,095	3.4	6.0	180.0	21.0	32.0
75	\$17,434	2.2	4.0	145.0	24.0	34.0
76	\$18,639	3.5	6.0	200.0	22.0	30.0
77	\$20,026	3.4	6.0	180.0	21.0	32.0
78	\$22,931	3.8	6.0	200.0	20.0	30.0
79	\$25,672	3.8	6.0	240.0	18.0	28.0
80	\$21,551	3.5	6.0	200.0	23.0	32.0
81	\$22,222	3.8	6.0	200.0	18.0	28.0
82	\$23,954	4.3	6.0	190.0	14.0	17.0
83	\$24,518	3.4	6.0	185.0	19.0	26.0
84	\$39,068	5.7	8.0	350.0	18.0	25.0
85	\$45,193	5.7	8.0	350.0	18.0	25.0

86	\$31,689	5.3	8.0	295.0	14.0	18.0
87	\$17,070	2.8	4.0	175.0	18.0	23.0
88	\$18,480	4.3	6.0	200.0	15.0	21.0
89	\$35,399	6.0	8.0	300.0	13.0	17.0
90	\$39,306	5.3	8.0	300.0	16.0	19.0
91	\$20,394	3.5	6.0	200.0	22.0	30.0
	Weight	Wheelbase	Length			
65	4947.0	130.0	219.0			
66	5050.0	116.0	197.0			
67	4425.0	113.0	192.0			
68	2866.0	98.0	163.0			
69	2370.0	98.0	167.0			
70	2348.0	98.0	153.0			
71	2617.0	104.0	183.0			
72	2676.0	104.0	183.0			
73	2617.0	104.0	183.0			
74	3465.0	111.0	200.0			
75	3174.0	106.0	188.0			
76	3297.0	106.0	188.0			
77	3340.0	111.0	198.0			
78	3476.0	111.0	200.0			
79	3606.0	111.0	200.0			
80	3315.0	106.0	188.0			
81	3434.0	111.0	198.0			
82	4605.0	111.0	190.0			
83	3699.0	112.0	187.0			
84	3246.0	105.0	180.0			
85	3248.0	105.0	180.0			
86	5678.0	130.0	222.0			
87	3623.0	111.0	192.0			
88	4142.0	119.0	206.0			
89	4804.0	144.0	238.0			
90	4760.0	116.0	191.0			
91	3458.0	112.0	188.0			
Chrysler						
	Make	Model		Type	Origin	
DriveTrain \						
92	Chrysler	PT Cruiser 4dr		Sedan	USA	
Front						
93	Chrysler	PT Cruiser Limited 4dr		Sedan	USA	
Front						
94	Chrysler	Sebring 4dr		Sedan	USA	



Front						
95	Chrysler	Sebring Touring	4dr	Sedan	USA	
Front						
96	Chrysler	300M	4dr	Sedan	USA	
Front						
97	Chrysler	Concorde LX	4dr	Sedan	USA	
Front						
98	Chrysler	Concorde LXi	4dr	Sedan	USA	
Front						
99	Chrysler	PT Cruiser GT	4dr	Sedan	USA	
Front						
100	Chrysler	Sebring convertible	2dr	Sedan	USA	
Front						
101	Chrysler	300M Special Edition	4dr	Sedan	USA	
Front						
102	Chrysler	Sebring Limited convertible	2dr	Sedan	USA	
Front						
103	Chrysler	Town and Country LX		Sedan	USA	
Front						
104	Chrysler	Town and Country Limited		Sedan	USA	
Front						
105	Chrysler	Crossfire	2dr	Sports	USA	
Rear						
106	Chrysler	Pacifica		Wagon	USA	
Rear						

	MSRP	Invoice	EngineSize	Cylinders	Horsepower	
MPG_City \						
92	\$17,985	\$16,919	2.4	4.0	150.0	22.0
93	\$22,000	\$20,573	2.4	4.0	150.0	22.0
94	\$19,090	\$17,805	2.4	4.0	150.0	22.0
95	\$21,840	\$20,284	2.7	6.0	200.0	21.0
96	\$29,865	\$27,797	3.5	6.0	250.0	18.0
97	\$24,130	\$22,452	2.7	6.0	200.0	21.0
98	\$26,860	\$24,909	3.5	6.0	232.0	19.0
99	\$25,955	\$24,172	2.4	4.0	220.0	21.0
100	\$25,215	\$23,451	2.4	4.0	150.0	22.0
101	\$33,295	\$30,884	3.5	6.0	255.0	18.0
102	\$30,950	\$28,613	2.7	6.0	200.0	21.0
103	\$27,490	\$25,371	3.3	6.0	180.0	19.0

104	\$38,380	\$35,063	3.8	6.0	215.0	18.0
105	\$34,495	\$32,033	3.2	6.0	215.0	17.0
106	\$31,230	\$28,725	3.5	6.0	250.0	17.0

	MPG_Highway	Weight	Wheelbase	Length
92	29.0	3101.0	103.0	169.0
93	29.0	3105.0	103.0	169.0
94	30.0	3173.0	108.0	191.0
95	28.0	3222.0	108.0	191.0
96	27.0	3581.0	113.0	198.0
97	29.0	3479.0	113.0	208.0
98	27.0	3548.0	113.0	208.0
99	27.0	3217.0	103.0	169.0
100	30.0	3357.0	106.0	194.0
101	27.0	3650.0	113.0	198.0
102	28.0	3448.0	106.0	194.0
103	26.0	4068.0	119.0	201.0
104	25.0	4331.0	119.0	201.0
105	25.0	3060.0	95.0	160.0
106	23.0	4675.0	116.0	199.0

Dodge

MSRP \	Make	Model	Type	Origin	DriveTrain
107	Dodge	Durango SLT	SUV	USA	All
\$32,235					
108	Dodge	Neon SE 4dr	Sedan	USA	Front
\$13,670					
109	Dodge	Neon SXT 4dr	Sedan	USA	Front
\$15,040					
110	Dodge	Intrepid SE 4dr	Sedan	USA	Front
\$22,035					
111	Dodge	Stratus SXT 4dr	Sedan	USA	Front
\$18,820					
112	Dodge	Stratus SE 4dr	Sedan	USA	Front
\$20,220					
113	Dodge	Intrepid ES 4dr	Sedan	USA	Front
\$24,885					
114	Dodge	Caravan SE	Sedan	USA	Front
\$21,795					
115	Dodge	Grand Caravan SXT	Sedan	USA	All
\$32,660					
116	Dodge	Viper SRT-10 convertible 2dr	Sports	USA	Rear
\$81,795					
117	Dodge	Dakota Regular Cab	Truck	USA	Rear
\$17,630					
118	Dodge	Dakota Club Cab	Truck	USA	Rear

\$20,300							
119	Dodge	Ram 1500	Regular Cab ST	Truck	USA	Rear	
\$20,215							

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
107	\$29,472	4.7	8.0	230.0	15.0
21.0					
108	\$12,849	2.0	4.0	132.0	29.0
36.0					
109	\$14,086	2.0	4.0	132.0	29.0
36.0					
110	\$20,502	2.7	6.0	200.0	21.0
29.0					
111	\$17,512	2.4	4.0	150.0	21.0
28.0					
112	\$18,821	2.4	4.0	150.0	21.0
28.0					
113	\$23,058	3.5	6.0	232.0	18.0
27.0					
114	\$20,508	2.4	4.0	150.0	20.0
26.0					
115	\$29,812	3.8	6.0	215.0	18.0
25.0					
116	\$74,451	8.3	10.0	500.0	12.0
20.0					
117	\$16,264	3.7	6.0	210.0	16.0
22.0					
118	\$18,670	3.7	6.0	210.0	16.0
22.0					
119	\$18,076	3.7	6.0	215.0	16.0
21.0					

	Weight	Wheelbase	Length
107	4987.0	119.0	201.0
108	2581.0	105.0	174.0
109	2626.0	105.0	174.0
110	3469.0	113.0	204.0
111	3182.0	108.0	191.0
112	3175.0	108.0	191.0
113	3487.0	113.0	204.0
114	3862.0	113.0	189.0
115	4440.0	119.0	201.0
116	3410.0	99.0	176.0
117	3714.0	112.0	193.0
118	3829.0	131.0	219.0
119	4542.0	121.0	208.0

Ford			
Make		Model	Type Origin

DriveTrain	\				
120	Ford		Excursion 6.8 XLT	SUV	USA
All					
121	Ford		Expedition 4.6 XLT	SUV	USA
Front					
122	Ford		Explorer XLT V6	SUV	USA
All					
123	Ford		Escape XLS	SUV	USA
All					
124	Ford		Focus ZX3 2dr hatch	Sedan	USA
Front					
125	Ford		Focus LX 4dr	Sedan	USA
Front					
126	Ford		Focus SE 4dr	Sedan	USA
Front					
127	Ford		Focus ZX5 5dr	Sedan	USA
Front					
128	Ford		Focus SVT 2dr	Sedan	USA
Front					
129	Ford		Taurus LX 4dr	Sedan	USA
Front					
130	Ford		Taurus SES Duratec 4dr	Sedan	USA
Front					
131	Ford		Crown Victoria 4dr	Sedan	USA
Rear					
132	Ford		Crown Victoria LX 4dr	Sedan	USA
Rear					
133	Ford		Crown Victoria LX Sport 4dr	Sedan	USA
Rear					
134	Ford		Freestar SE	Sedan	USA
Front					
135	Ford		Mustang 2dr (convertible)	Sports	USA
Rear					
136	Ford		Mustang GT Premium convertible 2dr	Sports	USA
Rear					
137	Ford		Thunderbird Deluxe convert w/hardtop 2d	Sports	USA
Front					
138	Ford		F-150 Regular Cab XL	Truck	USA
Rear					
139	Ford		F-150 Supercab Lariat	Truck	USA
All					
140	Ford		Ranger 2.3 XL Regular Cab	Truck	USA
Rear					
141	Ford		Focus ZTW	Wagon	USA
Front					
142	Ford		Taurus SE	Wagon	USA
Front					
	MSRP	Invoice	EngineSize	Cylinders	Horsepower

MPG_City \						
120	\$41,475	\$36,494	6.8	10.0	310.0	10.0
121	\$34,560	\$30,468	4.6	8.0	232.0	15.0
122	\$29,670	\$26,983	4.0	6.0	210.0	15.0
123	\$22,515	\$20,907	3.0	6.0	201.0	18.0
124	\$13,270	\$12,482	2.0	4.0	130.0	26.0
125	\$13,730	\$12,906	2.0	4.0	110.0	27.0
126	\$15,460	\$14,496	2.0	4.0	130.0	26.0
127	\$15,580	\$14,607	2.0	4.0	130.0	26.0
128	\$19,135	\$17,878	2.0	4.0	170.0	21.0
129	\$20,320	\$18,881	3.0	6.0	155.0	20.0
130	\$22,735	\$20,857	3.0	6.0	201.0	19.0
131	\$24,345	\$22,856	4.6	8.0	224.0	17.0
132	\$27,370	\$25,105	4.6	8.0	224.0	17.0
133	\$30,315	\$27,756	4.6	8.0	239.0	17.0
134	\$26,930	\$24,498	3.9	6.0	193.0	17.0
135	\$18,345	\$16,943	3.8	6.0	193.0	20.0
136	\$29,380	\$26,875	4.6	8.0	260.0	17.0
137	\$37,530	\$34,483	3.9	8.0	280.0	17.0
138	\$22,010	\$19,490	4.6	8.0	231.0	15.0
139	\$33,540	\$29,405	5.4	8.0	300.0	14.0
140	\$14,385	\$13,717	2.3	4.0	143.0	24.0
141	\$17,475	\$16,375	2.0	4.0	130.0	26.0
142	\$22,290	\$20,457	3.0	6.0	155.0	19.0
	MPG_Highway	Weight	Wheelbase	Length		
120	13.0	7190.0	137.0	227.0		
121	19.0	5000.0	119.0	206.0		

122	20.0	4463.0	114.0	190.0
123	23.0	3346.0	103.0	173.0
124	33.0	2612.0	103.0	168.0
125	36.0	2606.0	103.0	168.0
126	33.0	2606.0	103.0	168.0
127	33.0	2691.0	103.0	168.0
128	28.0	2750.0	103.0	168.0
129	27.0	3306.0	109.0	198.0
130	26.0	3313.0	109.0	198.0
131	25.0	4057.0	115.0	212.0
132	25.0	4057.0	115.0	212.0
133	25.0	4057.0	115.0	212.0
134	23.0	4275.0	121.0	201.0
135	29.0	3290.0	101.0	183.0
136	25.0	3347.0	101.0	183.0
137	24.0	3780.0	107.0	186.0
138	19.0	4788.0	126.0	211.0
139	18.0	5464.0	133.0	218.0
140	29.0	3028.0	111.0	188.0
141	33.0	2702.0	103.0	178.0
142	26.0	3497.0	109.0	198.0

GMC

	Make		Model	Type	Origin	DriveTrain	MSRP
143	GMC	Envoy	XUV SLE	SUV	USA	Front	\$31,890
144	GMC	Yukon	1500 SLE	SUV	USA	Front	\$35,725
145	GMC	Yukon XL	2500 SLT	SUV	USA	All	\$46,265
146	GMC	Safari	SLE	Sedan	USA	Rear	\$25,640
147	GMC	Canyon Z85	SL Regular Cab	Truck	USA	Rear	\$16,530
148	GMC	Sierra Extended Cab	1500	Truck	USA	Rear	\$25,717
149	GMC	Sierra HD	2500	Truck	USA	All	\$29,322
150	GMC	Sonoma Crew Cab		Truck	USA	All	\$25,395

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
143	\$28,922	4.2	6.0	275.0	15.0
144	\$31,361	4.8	8.0	285.0	16.0
145	\$40,534	6.0	8.0	325.0	13.0
146	\$23,215	4.3	6.0	190.0	16.0

20.0					
147	\$14,877	2.8	4.0	175.0	18.0
25.0					
148	\$22,604	4.8	8.0	285.0	17.0
20.0					
149	\$25,759	6.0	8.0	300.0	13.0
18.0					
150	\$23,043	4.3	6.0	190.0	15.0
19.0					

	Weight	Wheelbase	Length
143	4945.0	129.0	208.0
144	5042.0	116.0	199.0
145	6133.0	130.0	219.0
146	4309.0	111.0	190.0
147	3351.0	111.0	192.0
148	4548.0	144.0	230.0
149	5440.0	133.0	222.0
150	4083.0	123.0	208.0

Honda

	Make	Model	Type	Origin
DriveTrain \				
151	Honda	Civic Hybrid 4dr manual (gas/electric)	Hybrid	Asia
Front				
152	Honda	Insight 2dr (gas/electric)	Hybrid	Asia
Front				
153	Honda	Pilot LX	SUV	Asia
All				
154	Honda	CR-V LX	SUV	Asia
All				
155	Honda	Element LX	SUV	Asia
All				
156	Honda	Civic DX 2dr	Sedan	Asia
Front				
157	Honda	Civic HX 2dr	Sedan	Asia
Front				
158	Honda	Civic LX 4dr	Sedan	Asia
Front				
159	Honda	Accord LX 2dr	Sedan	Asia
Front				
160	Honda	Accord EX 2dr	Sedan	Asia
Front				
162	Honda	Civic EX 4dr	Sedan	Asia
Front				
163	Honda	Civic Si 2dr hatch	Sedan	Asia
Front				
164	Honda	Accord LX V6 4dr	Sedan	Asia
Front				
165	Honda	Accord EX V6 2dr	Sedan	Asia

Front					
166	Honda		Odyssey LX	Sedan	Asia
Front					
167	Honda		Odyssey EX	Sedan	Asia
Front					
168	Honda	S2000	convertible 2dr	Sports	Asia
Rear					

	MSRP	Invoice	EngineSize	Cylinders	Horsepower	
MPG_City \						
151	\$20,140	\$18,451	1.4	4.0	93.0	46.0
152	\$19,110	\$17,911	2.0	3.0	73.0	60.0
153	\$27,560	\$24,843	3.5	6.0	240.0	17.0
154	\$19,860	\$18,419	2.4	4.0	160.0	21.0
155	\$18,690	\$17,334	2.4	4.0	160.0	21.0
156	\$13,270	\$12,175	1.7	4.0	115.0	32.0
157	\$14,170	\$12,996	1.7	4.0	117.0	36.0
158	\$15,850	\$14,531	1.7	4.0	115.0	32.0
159	\$19,860	\$17,924	2.4	4.0	160.0	26.0
160	\$22,260	\$20,080	2.4	4.0	160.0	26.0
162	\$17,750	\$16,265	1.7	4.0	127.0	32.0
163	\$19,490	\$17,849	2.0	4.0	160.0	26.0
164	\$23,760	\$21,428	3.0	6.0	240.0	21.0
165	\$26,960	\$24,304	3.0	6.0	240.0	21.0
166	\$24,950	\$22,498	3.5	6.0	240.0	18.0
167	\$27,450	\$24,744	3.5	6.0	240.0	18.0
168	\$33,260	\$29,965	2.2	4.0	240.0	20.0

	MPG_Highway	Weight	Wheelbase	Length
151	51.0	2732.0	103.0	175.0
152	66.0	1850.0	95.0	155.0
153	22.0	4387.0	106.0	188.0
154	25.0	3258.0	103.0	179.0
155	24.0	3468.0	101.0	167.0



156	38.0	2432.0	103.0	175.0
157	44.0	2500.0	103.0	175.0
158	38.0	2513.0	103.0	175.0
159	34.0	2994.0	105.0	188.0
160	34.0	3047.0	105.0	188.0
162	37.0	2601.0	103.0	175.0
163	30.0	2782.0	101.0	166.0
164	30.0	3349.0	108.0	190.0
165	30.0	3294.0	105.0	188.0
166	25.0	4310.0	118.0	201.0
167	25.0	4365.0	118.0	201.0
168	25.0	2835.0	95.0	162.0

Hummer

Make	Model	Type	Origin	DriveTrain	MSRP	Invoice
EngineSize \						
169	Hummer	H2	SUV	USA	All	\$49,995
6.0						\$45,815

Cylinders	Horsepower	MPG_City	MPG_Highway	Weight	Wheelbase
Length					
169	8.0	316.0	10.0	12.0	6400.0
190.0					123.0

Hyundai

Make	Model	Type	Origin	DriveTrain	MSRP
\					
170	Hyundai	Santa Fe GLS	SUV	Asia	Front
					\$21,589
171	Hyundai	Accent 2dr hatch	Sedan	Asia	Front
					\$10,539
172	Hyundai	Accent GL 4dr	Sedan	Asia	Front
					\$11,839
174	Hyundai	Accent GT 2dr hatch	Sedan	Asia	Front
					\$11,939
175	Hyundai	Elantra GLS 4dr	Sedan	Asia	Front
					\$13,839
176	Hyundai	Elantra GT 4dr	Sedan	Asia	Front
					\$15,389
177	Hyundai	Elantra GT 4dr hatch	Sedan	Asia	Front
					\$15,389
178	Hyundai	Sonata GLS 4dr	Sedan	Asia	Front
					\$19,339
179	Hyundai	Sonata LX 4dr	Sedan	Asia	Front
					\$20,339
180	Hyundai	XG350 4dr	Sedan	Asia	Front
					\$24,589
181	Hyundai	XG350 L 4dr	Sedan	Asia	Front
					\$26,189
182	Hyundai	Tiburon GT V6 2dr	Sports	Asia	Front
					\$18,739

Invoice	EngineSize	Cylinders	Horsepower	MPG_City
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MPG_Highway \					
170	\$20,201	2.7	6.0	173.0	20.0
26.0					
171	\$10,107	1.6	4.0	103.0	29.0
33.0					
172	\$11,116	1.6	4.0	103.0	29.0
33.0					
174	\$11,209	1.6	4.0	103.0	29.0
33.0					
175	\$12,781	2.0	4.0	138.0	26.0
34.0					
176	\$14,207	2.0	4.0	138.0	26.0
34.0					
177	\$14,207	2.0	4.0	138.0	26.0
34.0					
178	\$17,574	2.7	6.0	170.0	19.0
27.0					
179	\$18,380	2.7	6.0	170.0	19.0
27.0					
180	\$22,055	3.5	6.0	194.0	17.0
26.0					
181	\$23,486	3.5	6.0	194.0	17.0
26.0					
182	\$17,101	2.7	6.0	172.0	19.0
26.0					

	Weight	Wheelbase	Length
170	3549.0	103.0	177.0
171	2255.0	96.0	167.0
172	2290.0	96.0	167.0
174	2339.0	96.0	167.0
175	2635.0	103.0	178.0
176	2635.0	103.0	178.0
177	2698.0	103.0	178.0
178	3217.0	106.0	187.0
179	3217.0	106.0	187.0
180	3651.0	108.0	192.0
181	3651.0	108.0	192.0
182	3023.0	100.0	173.0

Infiniti

	Make	Model	Type	Origin	DriveTrain	MSRP
183	Infiniti	G35 4dr	Sedan	Asia	Rear	\$28,495
184	Infiniti	G35 Sport Coupe 2dr	Sedan	Asia	Rear	\$29,795
185	Infiniti	G35 4dr	Sedan	Asia	All	\$32,445
186	Infiniti	I35 4dr	Sedan	Asia	Front	\$31,145

187	Infiniti	M45	4dr	Sedan	Asia	Rear	\$42,845
188	Infiniti	Q45	Luxury 4dr	Sedan	Asia	Rear	\$52,545
189	Infiniti	FX35	Wagon	Asia	Rear	\$34,895	
190	Infiniti	FX45	Wagon	Asia	All	\$36,395	

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway
183	\$26,157	3.5	6.0	260.0	18.0	26.0
184	\$27,536	3.5	6.0	280.0	18.0	26.0
185	\$29,783	3.5	6.0	260.0	18.0	26.0
186	\$28,320	3.5	6.0	255.0	19.0	26.0
187	\$38,792	4.5	8.0	340.0	17.0	23.0
188	\$47,575	4.5	8.0	340.0	17.0	23.0
189	\$31,756	3.5	6.0	280.0	16.0	22.0
190	\$33,121	4.5	8.0	315.0	15.0	19.0

	Weight	Wheelbase	Length
183	3336.0	112.0	187.0
184	3416.0	112.0	182.0
185	3677.0	112.0	187.0
186	3306.0	108.0	194.0
187	3851.0	110.0	197.0
188	3977.0	113.0	200.0
189	4056.0	112.0	189.0
190	4309.0	112.0	189.0

Isuzu

	Make	Model	Type	Origin	DriveTrain	MSRP	Invoice	
EngineSize	\							
191 4.2	Isuzu	Ascender	S	SUV	Asia	All	\$31,849	\$29,977
192 3.2	Isuzu	Rodeo	S	SUV	Asia	Front	\$20,449	\$19,261

	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight	Wheelbase	Length
191	6.0	275.0	15.0	20.0	4967.0	129.0	208.0
192	6.0	193.0	17.0	21.0	3836.0	106.0	

178.0

Jaguar

\	Make	Model	Type	Origin	DriveTrain	MSRP
193	Jaguar	X-Type 2.5 4dr	Sedan	Europe	All	\$29,995
194	Jaguar	X-Type 3.0 4dr	Sedan	Europe	All	\$33,995
195	Jaguar	S-Type 3.0 4dr	Sedan	Europe	Rear	\$43,895
196	Jaguar	S-Type 4.2 4dr	Sedan	Europe	Rear	\$49,995
197	Jaguar	S-Type R 4dr	Sedan	Europe	Rear	\$63,120
198	Jaguar	Vanden Plas 4dr	Sedan	Europe	Rear	\$68,995
199	Jaguar	XJ8 4dr	Sedan	Europe	Rear	\$59,995
200	Jaguar	XJR 4dr	Sedan	Europe	Rear	\$74,995
201	Jaguar	XK8 coupe 2dr	Sports	Europe	Rear	\$69,995
202	Jaguar	XK8 convertible 2dr	Sports	Europe	Rear	\$74,995
203	Jaguar	XKR coupe 2dr	Sports	Europe	Rear	\$81,995
204	Jaguar	XKR convertible 2dr	Sports	Europe	Rear	\$86,995

Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \				
193 \$27,355	2.5	6.0	192.0	18.0
26.0				
194 \$30,995	3.0	6.0	227.0	18.0
25.0				
195 \$40,004	3.0	6.0	235.0	18.0
26.0				
196 \$45,556	4.2	8.0	294.0	18.0
28.0				
197 \$57,499	4.2	8.0	390.0	17.0
24.0				
198 \$62,846	4.2	8.0	294.0	18.0
28.0				
199 \$54,656	4.2	8.0	294.0	18.0
28.0				
200 \$68,306	4.2	8.0	390.0	17.0
24.0				
201 \$63,756	4.2	8.0	294.0	18.0
26.0				
202 \$68,306	4.2	8.0	294.0	18.0
26.0				

203	\$74,676	4.2	8.0	390.0	16.0
23.0					
204	\$79,226	4.2	8.0	390.0	16.0
23.0					

	Weight	Wheelbase	Length
193	3428.0	107.0	184.0
194	3516.0	107.0	184.0
195	3777.0	115.0	192.0
196	3874.0	115.0	192.0
197	4046.0	115.0	192.0
198	3803.0	119.0	200.0
199	3803.0	119.0	200.0
200	3948.0	119.0	200.0
201	3779.0	102.0	187.0
202	3980.0	102.0	187.0
203	3865.0	102.0	187.0
204	4042.0	102.0	187.0

Jeep

MSRP	Make	Model	Type	Origin	DriveTrain
205	Jeep	Grand Cherokee Laredo	SUV	USA	Front
\$27,905					
206	Jeep	Liberty Sport	SUV	USA	All
\$20,130					
207	Jeep	Wrangler Sahara convertible 2dr	SUV	USA	All
\$25,520					

Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \				
205	\$25,686	4.0	6.0	195.0
21.0				
206	\$18,973	2.4	4.0	150.0
24.0				
207	\$23,275	4.0	6.0	190.0
19.0				

	Weight	Wheelbase	Length
205	3790.0	106.0	181.0
206	3826.0	104.0	174.0
207	3575.0	93.0	150.0

Kia

Invoice	Make	Model	Type	Origin	DriveTrain	MSRP
208	Kia	Sorento LX	SUV	Asia	Front	\$19,635
\$18,630						
209	Kia	Optima LX 4dr	Sedan	Asia	Front	\$16,040
\$14,910						
210	Kia	Rio 4dr manual	Sedan	Asia	Front	\$10,280
\$9,875						

211	Kia	Rio 4dr auto	Sedan	Asia	Front	\$11,155
						\$10,705
212	Kia	Spectra 4dr	Sedan	Asia	Front	\$12,360
						\$11,630
213	Kia	Spectra GS 4dr hatch	Sedan	Asia	Front	\$13,580
						\$12,830
214	Kia	Spectra GSX 4dr hatch	Sedan	Asia	Front	\$14,630
						\$13,790
215	Kia	Optima LX V6 4dr	Sedan	Asia	Front	\$18,435
						\$16,850
216	Kia	Amanti 4dr	Sedan	Asia	Front	\$26,000
						\$23,764
217	Kia	Sedona LX	Sedan	Asia	Front	\$20,615
						\$19,400
218	Kia	Rio Cinco	Wagon	Asia	Front	\$11,905
						\$11,410

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
208	3.5	6.0	192.0	16.0	19.0	4112.0
209	2.4	4.0	138.0	23.0	30.0	3281.0
210	1.6	4.0	104.0	26.0	33.0	2403.0
211	1.6	4.0	104.0	25.0	32.0	2458.0
212	1.8	4.0	124.0	24.0	32.0	2661.0
213	1.8	4.0	124.0	24.0	32.0	2686.0
214	1.8	4.0	124.0	24.0	32.0	2697.0
215	2.7	6.0	170.0	20.0	27.0	3279.0
216	3.5	6.0	195.0	17.0	25.0	4021.0
217	3.5	6.0	195.0	16.0	22.0	4802.0
218	1.6	4.0	104.0	26.0	33.0	2447.0

	Wheelbase	Length
208	107.0	180.0
209	106.0	186.0
210	95.0	167.0
211	95.0	167.0
212	101.0	178.0
213	101.0	178.0
214	101.0	178.0

215	106.0	186.0
216	110.0	196.0
217	115.0	194.0
218	95.0	167.0

Land Rover

	Make	Model	Type	Origin	DriveTrain	MSRP
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Invoice \

219	Land Rover	Range Rover HSE	SUV	Europe	All	\$72,250 \$65,807
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220	Land Rover	Discovery SE	SUV	Europe	All	\$39,250 \$35,777
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221	Land Rover	Freelander SE	SUV	Europe	All	\$25,995 \$23,969
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	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
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219	4.4	8.0	282.0	12.0	16.0	5379.0
220	4.6	8.0	217.0	12.0	16.0	4576.0
221	2.5	6.0	174.0	18.0	21.0	3577.0

	Wheelbase	Length
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219	113.0	195.0
220	100.0	185.0
221	101.0	175.0

Lexus

	Make	Model	Type	Origin	DriveTrain	MSRP
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222	Lexus	GX 470	SUV	Asia	All	\$45,700
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223	Lexus	LX 470	SUV	Asia	All	\$64,800
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224	Lexus	RX 330	SUV	Asia	All	\$39,195
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225	Lexus	ES 330 4dr	Sedan	Asia	Front	\$32,350
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226	Lexus	IS 300 4dr manual	Sedan	Asia	Rear	\$31,045
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227	Lexus	IS 300 4dr auto	Sedan	Asia	Rear	\$32,415
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228	Lexus	GS 300 4dr	Sedan	Asia	Rear	\$41,010
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229	Lexus	GS 430 4dr	Sedan	Asia	Rear	\$48,450
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230	Lexus	LS 430 4dr	Sedan	Asia	Rear	\$55,750
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231	Lexus	SC 430 convertible 2dr	Sports	Asia	Rear	\$63,200
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232	Lexus	IS 300 SportCross	Wagon	Asia	Rear	\$32,455
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	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
222	\$39,838	4.7	8.0	235.0	15.0
19.0					
223	\$56,455	4.7	8.0	235.0	13.0
17.0					
224	\$34,576	3.3	6.0	230.0	18.0
24.0					
225	\$28,755	3.3	6.0	225.0	20.0
29.0					
226	\$27,404	3.0	6.0	215.0	18.0
25.0					
227	\$28,611	3.0	6.0	215.0	18.0
24.0					
228	\$36,196	3.0	6.0	220.0	18.0
25.0					
229	\$42,232	4.3	8.0	300.0	18.0
23.0					
230	\$48,583	4.3	8.0	290.0	18.0
25.0					
231	\$55,063	4.3	8.0	300.0	18.0
23.0					
232	\$28,647	3.0	6.0	215.0	18.0
24.0					

	Weight	Wheelbase	Length
222	4740.0	110.0	188.0
223	5590.0	112.0	193.0
224	4065.0	107.0	186.0
225	3460.0	107.0	191.0
226	3255.0	105.0	177.0
227	3285.0	105.0	177.0
228	3649.0	110.0	189.0
229	3715.0	110.0	189.0
230	3990.0	115.0	197.0
231	3840.0	103.0	178.0
232	3410.0	105.0	177.0

Lincoln

	Make	Model	Type	Origin	DriveTrain
MSRP \					
233	Lincoln	Navigator Luxury	SUV	USA	All
\$52,775					
234	Lincoln	Aviator Ultimate	SUV	USA	Front
\$42,915					
235	Lincoln	LS V6 Luxury 4dr	Sedan	USA	Rear
\$32,495					
236	Lincoln	LS V6 Premium 4dr	Sedan	USA	Rear
\$36,895					



237	Lincoln	LS V8 Sport 4dr	Sedan	USA	Rear
\$40,095					
238	Lincoln	LS V8 Ultimate 4dr	Sedan	USA	Rear
\$43,495					
239	Lincoln	Town Car Signature 4dr	Sedan	USA	Rear
\$41,815					
240	Lincoln	Town Car Ultimate 4dr	Sedan	USA	Rear
\$44,925					
241	Lincoln	Town Car Ultimate L 4dr	Sedan	USA	Rear
\$50,470					

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
233	\$46,360	5.4	8.0	300.0	13.0
18.0					
234	\$39,443	4.6	8.0	302.0	13.0
18.0					
235	\$29,969	3.0	6.0	232.0	20.0
26.0					
236	\$33,929	3.0	6.0	232.0	20.0
26.0					
237	\$36,809	3.9	8.0	280.0	17.0
24.0					
238	\$39,869	3.9	8.0	280.0	17.0
24.0					
239	\$38,418	4.6	8.0	239.0	17.0
25.0					
240	\$41,217	4.6	8.0	239.0	17.0
25.0					
241	\$46,208	4.6	8.0	239.0	17.0
25.0					

	Weight	Wheelbase	Length
233	5969.0	119.0	206.0
234	4834.0	114.0	193.0
235	3681.0	115.0	194.0
236	3681.0	115.0	194.0
237	3768.0	115.0	194.0
238	3768.0	115.0	194.0
239	4369.0	118.0	215.0
240	4369.0	118.0	215.0
241	4474.0	124.0	221.0

MINI

	Make	Model	Type	Origin	DriveTrain	MSRP	Invoice
EngineSize \							
242	MINI	Cooper	Sedan	Europe	Front	\$16,999	\$15,437
1.6							
243	MINI	Cooper S	Sedan	Europe	Front	\$19,999	\$18,137
1.6							

	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight	Wheelbase
Length						
242	4.0	115.0	28.0	37.0	2524.0	97.0
143.0						
243	4.0	163.0	25.0	34.0	2678.0	97.0
144.0						
Mazda						
	Make		Model	Type	Origin	DriveTrain
MSRP \						
244	Mazda		Tribute DX 2.0	SUV	Asia	All
\$21,087						
245	Mazda		Mazda3 i 4dr	Sedan	Asia	Front
\$15,500						
246	Mazda		Mazda3 s 4dr	Sedan	Asia	Front
\$17,200						
247	Mazda		Mazda6 i 4dr	Sedan	Asia	Front
\$19,270						
248	Mazda		MPV ES	Sedan	Asia	Front
\$28,750						
249	Mazda	MX-5 Miata convertible 2dr	Sports	Asia		Rear
\$22,388						
250	Mazda	MX-5 Miata LS convertible 2dr	Sports	Asia		Rear
\$25,193						
251	Mazda	RX-8 4dr automatic	Sports	Asia		Rear
\$25,700						
252	Mazda	RX-8 4dr manual	Sports	Asia		Rear
\$27,200						
253	Mazda	B2300 SX Regular Cab	Truck	Asia		Rear
\$14,840						
254	Mazda	B4000 SE Cab Plus	Truck	Asia		All
\$22,350						
	Invoice	EngineSize	Cylinders	Horsepower	MPG_City	
MPG_Highway \						
244	\$19,742	2.0	4.000000	130.0	22.0	
25.0						
245	\$14,525	2.0	4.000000	148.0	26.0	
34.0						
246	\$15,922	2.3	4.000000	160.0	25.0	
31.0						
247	\$17,817	2.3	4.000000	160.0	24.0	
32.0						
248	\$26,600	3.0	6.000000	200.0	18.0	
25.0						
249	\$20,701	1.8	4.000000	142.0	23.0	
28.0						
250	\$23,285	1.8	4.000000	142.0	23.0	
28.0						
251	\$23,794	1.3	5.807512	197.0	18.0	

25.0					
252	\$25,179	1.3	5.807512	238.0	18.0
24.0					
253	\$14,070	2.3	4.000000	143.0	24.0
29.0					
254	\$20,482	4.0	6.000000	207.0	15.0
19.0					

	Weight	Wheelbase	Length
244	3091.0	103.0	173.0
245	2696.0	104.0	178.0
246	2762.0	104.0	179.0
247	3042.0	105.0	187.0
248	3812.0	112.0	188.0
249	2387.0	89.0	156.0
250	2387.0	89.0	156.0
251	3053.0	106.0	174.0
252	3029.0	106.0	174.0
253	2960.0	112.0	188.0
254	3571.0	126.0	203.0

Mercedes-Benz

	Make	Model	Type	Origin
DriveTrain \				
255	Mercedes-Benz	G500	SUV	Europe
All				
256	Mercedes-Benz	ML500	SUV	Europe
All				
257	Mercedes-Benz	C230 Sport 2dr	Sedan	Europe
Rear				
258	Mercedes-Benz	C320 Sport 2dr	Sedan	Europe
Rear				
259	Mercedes-Benz	C240 4dr	Sedan	Europe
Rear				
260	Mercedes-Benz	C240 4dr	Sedan	Europe
All				
261	Mercedes-Benz	C320 Sport 4dr	Sedan	Europe
Rear				
262	Mercedes-Benz	C320 4dr	Sedan	Europe
Rear				
263	Mercedes-Benz	C320 4dr	Sedan	Europe
All				
264	Mercedes-Benz	C32 AMG 4dr	Sedan	Europe
Rear				
265	Mercedes-Benz	CL500 2dr	Sedan	Europe
Rear				
266	Mercedes-Benz	CL600 2dr	Sedan	Europe
Rear				
267	Mercedes-Benz	CLK320 coupe 2dr (convertible)	Sedan	Europe
Rear				

268 Rear	Mercedes-Benz	CLK500	coupe 2dr (convertible)	Sedan	Europe	
269 Rear	Mercedes-Benz		E320 4dr	Sedan	Europe	
270 Rear	Mercedes-Benz		E500 4dr	Sedan	Europe	
271 Rear	Mercedes-Benz		S430 4dr	Sedan	Europe	
272 All	Mercedes-Benz		S500 4dr	Sedan	Europe	
273 Rear	Mercedes-Benz	SL500	convertible 2dr	Sports	Europe	
274 Rear	Mercedes-Benz		SL55 AMG 2dr	Sports	Europe	
275 Rear	Mercedes-Benz	SL600	convertible 2dr	Sports	Europe	
276 Rear	Mercedes-Benz	SLK230	convertible 2dr	Sports	Europe	
277 Rear	Mercedes-Benz		SLK32 AMG 2dr	Sports	Europe	
278 Rear	Mercedes-Benz		C240	Wagon	Europe	
279 Rear	Mercedes-Benz		E320	Wagon	Europe	
280 All	Mercedes-Benz		E500	Wagon	Europe	
\	MSRP	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
255	\$76,870	\$71,540	5.0	8.0	292.0	13.0
256	\$46,470	\$43,268	5.0	8.0	288.0	14.0
257	\$26,060	\$24,249	1.8	4.0	189.0	22.0
258	\$28,370	\$26,435	3.2	6.0	215.0	19.0
259	\$32,280	\$30,071	2.6	6.0	168.0	20.0
260	\$33,480	\$31,187	2.6	6.0	168.0	19.0
261	\$35,920	\$33,456	3.2	6.0	215.0	19.0
262	\$37,630	\$35,046	3.2	6.0	215.0	20.0
263	\$38,830	\$36,162	3.2	6.0	215.0	19.0
264	\$52,120	\$48,522	3.2	6.0	349.0	16.0
265	\$94,820	\$88,324	5.0	8.0	302.0	16.0

266	\$128,420	\$119,600	5.5	12.0	493.0	13.0
267	\$45,707	\$41,966	3.2	6.0	215.0	20.0
268	\$52,800	\$49,104	5.0	8.0	302.0	17.0
269	\$48,170	\$44,849	3.2	6.0	221.0	19.0
270	\$57,270	\$53,382	5.0	8.0	302.0	16.0
271	\$74,320	\$69,168	4.3	8.0	275.0	18.0
272	\$86,970	\$80,939	5.0	8.0	302.0	16.0
273	\$90,520	\$84,325	5.0	8.0	302.0	16.0
274	\$121,770	\$113,388	5.5	8.0	493.0	14.0
275	\$126,670	\$117,854	5.5	12.0	493.0	13.0
276	\$40,320	\$37,548	2.3	4.0	192.0	21.0
277	\$56,170	\$52,289	3.2	6.0	349.0	17.0
278	\$33,780	\$31,466	2.6	6.0	168.0	19.0
279	\$50,670	\$47,174	3.2	6.0	221.0	19.0
280	\$60,670	\$56,474	5.0	8.0	302.0	16.0
	MPG_Highway	Weight	Wheelbase	Length		
255	14.0	5423.0	112.0	186.0		
256	17.0	4874.0	111.0	183.0		
257	30.0	3250.0	107.0	178.0		
258	26.0	3430.0	107.0	178.0		
259	25.0	3360.0	107.0	178.0		
260	25.0	3360.0	107.0	178.0		
261	26.0	3430.0	107.0	178.0		
262	26.0	3450.0	107.0	178.0		
263	27.0	3450.0	107.0	178.0		
264	21.0	3540.0	107.0	178.0		
265	24.0	4085.0	114.0	196.0		
266	19.0	4473.0	114.0	196.0		
267	26.0	3770.0	107.0	183.0		
268	22.0	3585.0	107.0	183.0		
269	27.0	3635.0	112.0	190.0		
270	20.0	3815.0	112.0	190.0		
271	26.0	4160.0	122.0	203.0		
272	24.0	4390.0	122.0	203.0		

273	23.0	4065.0	101.0	179.0
274	21.0	4235.0	101.0	179.0
275	19.0	4429.0	101.0	179.0
276	29.0	3055.0	95.0	158.0
277	22.0	3220.0	95.0	158.0
278	25.0	3470.0	107.0	179.0
279	27.0	3966.0	112.0	190.0
280	24.0	4230.0	112.0	190.0

Mercury

	Make	Model	Type	Origin	
DriveTrain \					
281	Mercury	Mountaineer	SUV	USA	Front
282	Mercury	Sable GS 4dr	Sedan	USA	Front
283	Mercury	Grand Marquis GS 4dr	Sedan	USA	Rear
284	Mercury	Grand Marquis LS Premium 4dr	Sedan	USA	Rear
285	Mercury	Sable LS Premium 4dr	Sedan	USA	Front
286	Mercury	Grand Marquis LS Ultimate 4dr	Sedan	USA	Rear
287	Mercury	Marauder 4dr	Sedan	USA	Rear
288	Mercury	Monterey Luxury	Sedan	USA	Front
289	Mercury	Sable GS	Wagon	USA	Front

	MSRP	Invoice	EngineSize	Cylinders	Horsepower	
MPG_City \						
281	\$29,995	\$27,317	4.0	6.0	210.0	16.0
282	\$21,595	\$19,848	3.0	6.0	155.0	20.0
283	\$24,695	\$23,217	4.6	8.0	224.0	17.0
284	\$29,595	\$27,148	4.6	8.0	224.0	17.0
285	\$23,895	\$21,918	3.0	6.0	201.0	19.0
286	\$30,895	\$28,318	4.6	8.0	224.0	17.0
287	\$34,495	\$31,558	4.6	8.0	302.0	17.0
288	\$33,995	\$30,846	4.2	6.0	201.0	16.0
289	\$22,595	\$20,748	3.0	6.0	155.0	19.0

	MPG_Highway	Weight	Wheelbase	Length			
281	21.0	4374.0	114.0	190.0			
282	27.0	3308.0	109.0	200.0			
283	25.0	4052.0	115.0	212.0			
284	25.0	4052.0	115.0	212.0			
285	26.0	3315.0	109.0	200.0			
286	25.0	4052.0	115.0	212.0			
287	23.0	4195.0	115.0	212.0			
288	23.0	4340.0	121.0	202.0			
289	26.0	3488.0	109.0	198.0			
Mitsubishi							
	Make		Model	Type	Origin		
DriveTrain \							
290	Mitsubishi		Endeavor XLS	SUV	Asia		
All							
291	Mitsubishi		Montero XLS	SUV	Asia		
All							
292	Mitsubishi		Outlander LS	SUV	Asia		
Front							
293	Mitsubishi		Lancer ES 4dr	Sedan	Asia		
Front							
294	Mitsubishi		Lancer LS 4dr	Sedan	Asia		
Front							
295	Mitsubishi		Galant ES 2.4L 4dr	Sedan	Asia		
Front							
296	Mitsubishi		Lancer OZ Rally 4dr auto	Sedan	Asia		
Front							
297	Mitsubishi		Diamante LS 4dr	Sedan	Asia		
Front							
298	Mitsubishi		Galant GTS 4dr	Sedan	Asia		
Front							
299	Mitsubishi		Eclipse GTS 2dr	Sports	Asia		
Front							
300	Mitsubishi	Eclipse Spyder GT convertible	2dr	Sports	Asia		
Front							
301	Mitsubishi		Lancer Evolution 4dr	Sports	Asia		
Front							
302	Mitsubishi		Lancer Sportback LS	Wagon	Asia		
Front							
	MSRP	Invoice	EngineSize	Cylinders	Horsepower		
MPG_City \							
290	\$30,492	\$28,330	3.8	6.0	215.0	17.0	
291	\$33,112	\$30,763	3.8	6.0	215.0	15.0	
292	\$18,892	\$17,569	2.4	4.0	160.0	21.0	
293	\$14,622	\$13,751	2.0	4.0	120.0	25.0	

294	\$16,722	\$15,718	2.0	4.0	120.0	25.0
295	\$19,312	\$17,957	2.4	4.0	160.0	23.0
296	\$17,232	\$16,196	2.0	4.0	120.0	25.0
297	\$29,282	\$27,250	3.5	6.0	205.0	18.0
298	\$25,700	\$23,883	3.8	6.0	230.0	18.0
299	\$25,092	\$23,456	3.0	6.0	210.0	21.0
300	\$26,992	\$25,218	3.0	6.0	210.0	21.0
301	\$29,562	\$27,466	2.0	4.0	271.0	18.0
302	\$17,495	\$16,295	2.4	4.0	160.0	25.0
	MPG_Highway	Weight	Wheelbase	Length		
290	21.0	4134.0	109.0	190.0		
291	19.0	4718.0	110.0	190.0		
292	27.0	3240.0	103.0	179.0		
293	31.0	2656.0	102.0	181.0		
294	31.0	2795.0	102.0	181.0		
295	30.0	3351.0	108.0	191.0		
296	31.0	2744.0	102.0	181.0		
297	25.0	3549.0	107.0	194.0		
298	26.0	3649.0	108.0	191.0		
299	28.0	3241.0	101.0	177.0		
300	28.0	3296.0	101.0	177.0		
301	26.0	3263.0	103.0	179.0		
302	31.0	3020.0	102.0	181.0		
Nissan						
	Make		Model	Type	Origin	DriveTrain
303	Nissan	Pathfinder	Armada SE	SUV	Asia	Front
304	Nissan	Pathfinder	SE	SUV	Asia	Front
305	Nissan	Xterra	XE V6	SUV	Asia	Front
306	Nissan	Sentra	1.8 4dr	Sedan	Asia	Front
307	Nissan	Sentra	1.8 S 4dr	Sedan	Asia	Front
308	Nissan	Altima	S 4dr	Sedan	Asia	Front
309	Nissan	Sentra	SE-R 4dr	Sedan	Asia	Front
310	Nissan	Altima	SE 4dr	Sedan	Asia	Front



311	Nissan		Maxima SE 4dr	Sedan	Asia	Front
312	Nissan		Maxima SL 4dr	Sedan	Asia	Front
313	Nissan		Quest S	Sedan	Asia	Front
314	Nissan		Quest SE	Sedan	Asia	Front
315	Nissan		350Z coupe 2dr	Sports	Asia	Rear
316	Nissan	350Z Enthusiast convertible 2dr		Sports	Asia	Rear
317	Nissan	Frontier King Cab XE V6		Truck	Asia	All
318	Nissan	Titan King Cab XE		Truck	Asia	All
319	Nissan		Murano SL	Wagon	Asia	Rear
	MSRP	Invoice	EngineSize	Cylinders	Horsepower	
MPG_City \						
303	\$33,840	\$30,815	5.6	8.0	305.0	13.0
304	\$27,339	\$25,972	3.5	6.0	240.0	16.0
305	\$20,939	\$19,512	3.3	6.0	180.0	17.0
306	\$12,740	\$12,205	1.8	4.0	126.0	28.0
307	\$14,740	\$13,747	1.8	4.0	126.0	28.0
308	\$19,240	\$18,030	2.5	4.0	175.0	21.0
309	\$17,640	\$16,444	2.5	4.0	165.0	23.0
310	\$23,290	\$21,580	3.5	6.0	245.0	21.0
311	\$27,490	\$25,182	3.5	6.0	265.0	20.0
312	\$29,440	\$26,966	3.5	6.0	265.0	20.0
313	\$24,780	\$22,958	3.5	6.0	240.0	19.0
314	\$32,780	\$30,019	3.5	6.0	240.0	18.0
315	\$26,910	\$25,203	3.5	6.0	287.0	20.0
316	\$34,390	\$31,845	3.5	6.0	287.0	20.0
317	\$19,479	\$18,253	3.3	6.0	180.0	17.0

318	\$26,650	\$24,926	5.6	8.0	305.0	14.0
319	\$28,739	\$27,300	3.5	6.0	245.0	20.0

	MPG_Highway	Weight	Wheelbase	Length
303	19.0	5013.0	123.0	207.0
304	21.0	3871.0	106.0	183.0
305	20.0	3760.0	104.0	178.0
306	35.0	2513.0	100.0	178.0
307	35.0	2581.0	100.0	178.0
308	26.0	3039.0	110.0	192.0
309	28.0	2761.0	100.0	178.0
310	26.0	3197.0	110.0	192.0
311	28.0	3473.0	111.0	194.0
312	28.0	3476.0	111.0	194.0
313	26.0	4012.0	124.0	204.0
314	25.0	4175.0	124.0	204.0
315	26.0	3188.0	104.0	169.0
316	26.0	3428.0	104.0	169.0
317	20.0	3932.0	116.0	191.0
318	18.0	5287.0	140.0	224.0
319	25.0	3801.0	111.0	188.0

Oldsmobile

	Make	Model	Type	Origin	DriveTrain	MSRP
Invoice \						
320	Oldsmobile	Alero GX 2dr	Sedan	USA	Front	\$18,825
						\$17,642
321	Oldsmobile	Alero GLS 2dr	Sedan	USA	Front	\$23,675
						\$21,485
322	Oldsmobile	Silhouette GL	Sedan	USA	Front	\$28,790
						\$26,120

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
\						
320	2.2	4.0	140.0	24.0	32.0	2946.0
321	3.4	6.0	170.0	20.0	29.0	3085.0
322	3.4	6.0	185.0	19.0	26.0	3948.0

	Wheelbase	Length
320	107.0	187.0
321	107.0	187.0
322	120.0	201.0

Pontiac

	Make	Model	Type	Origin	DriveTrain	MSRP
MSRP \						
323	Pontiac	Aztekt	SUV	USA	Front	\$21,595

324	Pontiac	Sunfire 1SA 2dr	Sedan	USA	Front	\$15,495
325	Pontiac	Grand Am GT 2dr	Sedan	USA	Front	\$22,450
326	Pontiac	Grand Prix GT1 4dr	Sedan	USA	Front	\$22,395
327	Pontiac	Sunfire 1SC 2dr	Sedan	USA	Front	\$17,735
328	Pontiac	Grand Prix GT2 4dr	Sedan	USA	Front	\$24,295
329	Pontiac	Bonneville GXP 4dr	Sedan	USA	Front	\$35,995
330	Pontiac	Montana	Sedan	USA	Front	\$23,845
331	Pontiac	Montana EWB	Sedan	USA	All	\$31,370
332	Pontiac	GT0 2dr	Sports	USA	Rear	\$33,500
333	Pontiac	Vibe	Wagon	USA	Rear	\$17,045

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
323	\$19,810	3.4	6.0	185.0	19.0
26.0					
324	\$14,375	2.2	4.0	140.0	24.0
33.0					
325	\$20,595	3.4	6.0	175.0	20.0
29.0					
326	\$20,545	3.8	6.0	200.0	20.0
30.0					
327	\$16,369	2.2	4.0	140.0	24.0
33.0					
328	\$22,284	3.8	6.0	200.0	20.0
30.0					
329	\$32,997	4.6	8.0	275.0	17.0
20.0					
330	\$21,644	3.4	6.0	185.0	19.0
26.0					
331	\$28,454	3.4	6.0	185.0	18.0
24.0					
332	\$30,710	5.7	8.0	340.0	16.0
20.0					
333	\$15,973	1.8	4.0	130.0	29.0
36.0					

	Weight	Wheelbase	Length
323	3779.0	108.0	182.0
324	2771.0	104.0	182.0

325	3118.0	107.0	186.0
326	3477.0	111.0	198.0
327	2771.0	104.0	182.0
328	3484.0	111.0	198.0
329	3790.0	112.0	203.0
330	3803.0	112.0	187.0
331	4431.0	121.0	201.0
332	3725.0	110.0	190.0
333	2701.0	102.0	172.0

Porsche					
	Make		Model	Type	Origin
DriveTrain \					
334	Porsche		Cayenne S	SUV	Europe
All					
335	Porsche	911 Carrera convertible 2dr (coupe)		Sports	Europe
Rear					
336	Porsche	911 Carrera 4S coupe 2dr (convert)		Sports	Europe
All					
337	Porsche	911 Targa coupe 2dr		Sports	Europe
Rear					
338	Porsche	911 GT2 2dr		Sports	Europe
Rear					
339	Porsche	Boxster convertible 2dr		Sports	Europe
Rear					
340	Porsche	Boxster S convertible 2dr		Sports	Europe
Rear					

	MSRP	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
\						
334	\$56,665	\$49,865	4.5	8.0	340.0	14.0
335	\$79,165	\$69,229	3.6	6.0	315.0	18.0
336	\$84,165	\$72,206	3.6	6.0	315.0	17.0
337	\$76,765	\$67,128	3.6	6.0	315.0	18.0
338	\$192,465	\$173,560	3.6	6.0	477.0	17.0
339	\$43,365	\$37,886	2.7	6.0	228.0	20.0
340	\$52,365	\$45,766	3.2	6.0	258.0	18.0

	MPG_Highway	Weight	Wheelbase	Length
334	18.0	4950.0	112.0	188.0
335	26.0	3135.0	93.0	175.0
336	24.0	3240.0	93.0	175.0
337	26.0	3119.0	93.0	175.0
338	24.0	3131.0	93.0	175.0

339		29.0	2811.0		95.0	170.0		
340		26.0	2911.0		95.0	170.0		
Saab								
	Make			Model	Type	Origin	DriveTrain	
MSRP \								
341	Saab		9-3 Arc Sport	4dr Sedan	Europe		Front	\$30,860
342	Saab		9-3 Aero	4dr Sedan	Europe		Front	\$33,360
343	Saab		9-5 Arc	4dr Sedan	Europe		Front	\$35,105
344	Saab		9-5 Aero	4dr Sedan	Europe		Front	\$39,465
345	Saab	9-3 Arc	convertible	2dr Sedan	Europe		Front	\$40,670
346	Saab	9-3 Aero	convertible	2dr Sedan	Europe		Front	\$43,175
347	Saab		9-5 Aero	Wagon	Europe		Front	\$40,845
	Invoice	EngineSize	Cylinders	Horsepower	MPG_City			
MPG_Highway \								
341	\$29,269	2.0	4.0	210.0	20.0			
28.0								
342	\$31,562	2.0	4.0	210.0	20.0			
28.0								
343	\$33,011	2.3	4.0	220.0	21.0			
29.0								
344	\$37,721	2.3	4.0	250.0	21.0			
29.0								
345	\$38,520	2.0	4.0	210.0	21.0			
29.0								
346	\$40,883	2.0	4.0	210.0	21.0			
30.0								
347	\$38,376	2.3	4.0	250.0	19.0			
29.0								
	Weight	Wheelbase	Length					
341	3175.0	105.0	183.0					
342	3175.0	105.0	183.0					
343	3470.0	106.0	190.0					
344	3470.0	106.0	190.0					
345	3480.0	105.0	182.0					
346	3700.0	105.0	182.0					
347	3620.0	106.0	190.0					
Saturn								
	Make			Model	Type	Origin	DriveTrain	MSRP
Invoice \								
348	Saturn			VUE	SUV	USA	All	\$20,585
\$19,238								

349	Saturn	Ion1	4dr	Sedan	USA	Front	\$10,995 \$10,319
350	Saturn	lon2	4dr	Sedan	USA	Front	\$14,300 \$13,393
351	Saturn	lon3	4dr	Sedan	USA	Front	\$15,825 \$14,811
352	Saturn	lon2 quad	coupe 2dr	Sedan	USA	Front	\$14,850 \$13,904
353	Saturn	lon3 quad	coupe 2dr	Sedan	USA	Front	\$16,350 \$15,299
354	Saturn	L300-2	4dr	Sedan	USA	Front	\$21,410 \$19,801
355	Saturn	L300	2	Wagon	USA	Front	\$23,560 \$21,779

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
348	2.2	4.0	143.0	21.0	26.0	3381.0
349	2.2	4.0	140.0	26.0	35.0	2692.0
350	2.2	4.0	140.0	26.0	35.0	2692.0
351	2.2	4.0	140.0	26.0	35.0	2692.0
352	2.2	4.0	140.0	26.0	35.0	2751.0
353	2.2	4.0	140.0	26.0	35.0	2751.0
354	3.0	6.0	182.0	20.0	28.0	3197.0
355	2.2	4.0	140.0	24.0	34.0	3109.0

	Wheelbase	Length
348	107.0	181.0
349	103.0	185.0
350	103.0	185.0
351	103.0	185.0
352	103.0	185.0
353	103.0	185.0
354	107.0	190.0
355	107.0	190.0

Scion

	Make	Model	Type	Origin	DriveTrain	MSRP	Invoice
356	Scion	xA 4dr hatch	Sedan	Asia	Front	\$12,965	\$12,340
357	Scion	xB	Wagon	Asia	Front	\$14,165	\$13,480

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
356	1.5	4.0	108.0	32.0	38.0	2340.0
357	1.5	4.0	108.0	31.0	35.0	2425.0

	Wheelbase	Length
356	93.0	154.0
357	98.0	155.0

Subaru

MSRP	Make	Model	Type	Origin	DriveTrain
358	Subaru	Impreza 2.5 RS 4dr	Sedan	Asia	All
\$19,945					
359	Subaru	Legacy L 4dr	Sedan	Asia	All
\$20,445					
360	Subaru	Legacy GT 4dr	Sedan	Asia	All
\$25,645					
361	Subaru	Outback Limited Sedan 4dr	Sedan	Asia	All
\$27,145					
362	Subaru	Outback H6 4dr	Sedan	Asia	All
\$29,345					
363	Subaru	Outback H-6 VDC 4dr	Sedan	Asia	All
\$31,545					
364	Subaru	Impreza WRX 4dr	Sports	Asia	All
\$25,045					
365	Subaru	Impreza WRX STi 4dr	Sports	Asia	All
\$31,545					
366	Subaru	Baja	Truck	Asia	All
\$24,520					
367	Subaru	Forester X	Wagon	Asia	All
\$21,445					
368	Subaru	Outback	Wagon	Asia	All
\$23,895					

Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway				
358	2.5	4.0	165.0	22.0
\$18,399				
28.0				
359	2.5	4.0	165.0	21.0
\$18,713				
28.0				
360	2.5	4.0	165.0	21.0
\$23,336				
28.0				
361	2.5	4.0	165.0	20.0
\$24,687				
27.0				
362	3.0	6.0	212.0	19.0
\$26,660				
26.0				
363	3.0	6.0	212.0	19.0
\$28,603				

26.0					
364	\$23,022	2.0	4.0	227.0	20.0
27.0					
365	\$29,130	2.5	4.0	300.0	18.0
24.0					
366	\$22,304	2.5	4.0	165.0	21.0
28.0					
367	\$19,646	2.5	4.0	165.0	21.0
28.0					
368	\$21,773	2.5	4.0	165.0	21.0
28.0					

	Weight	Wheelbase	Length
358	2965.0	99.0	174.0
359	3285.0	104.0	184.0
360	3395.0	104.0	184.0
361	3495.0	104.0	184.0
362	3610.0	104.0	184.0
363	3630.0	104.0	184.0
364	3085.0	99.0	174.0
365	3263.0	100.0	174.0
366	3485.0	104.0	193.0
367	3090.0	99.0	175.0
368	3430.0	104.0	187.0

Suzuki

	Make	Model	Type	Origin	DriveTrain	MSRP
Invoice \						
369	Suzuki	XL-7 EX	SUV	Asia	Front	\$23,699
\$22,307						
370	Suzuki	Vitara LX	SUV	Asia	All	\$17,163
\$16,949						
371	Suzuki	Aeno S 4dr	Sedan	Asia	Front	\$12,884
\$12,719						
372	Suzuki	Aerio LX 4dr	Sedan	Asia	Front	\$14,500
\$14,317						
373	Suzuki	Forenza S 4dr	Sedan	Asia	Front	\$12,269
\$12,116						
374	Suzuki	Forenza EX 4dr	Sedan	Asia	Front	\$15,568
\$15,378						
375	Suzuki	Verona LX 4dr	Sedan	Asia	Front	\$17,262
\$17,053						
376	Suzuki	Aerio SX	Wagon	Asia	All	\$16,497
\$16,291						

	EngineSize	Cylinders	Horsepower	MPG_City	MPG_Highway	Weight
\						
369	2.7	6.0	185.0	18.0	22.0	3682.0
370	2.5	6.0	165.0	19.0	22.0	3020.0



371	2.3	4.0	155.0	25.0	31.0	2676.0
372	2.3	4.0	155.0	25.0	31.0	2676.0
373	2.0	4.0	119.0	24.0	31.0	2701.0
374	2.0	4.0	119.0	22.0	30.0	2756.0
375	2.5	6.0	155.0	20.0	27.0	3380.0
376	2.3	4.0	155.0	24.0	29.0	2932.0

	Wheelbase	Length
369	110.0	187.0
370	98.0	163.0
371	98.0	171.0
372	98.0	171.0
373	102.0	177.0
374	102.0	177.0
375	106.0	188.0
376	98.0	167.0

MSRP \	Make	Model	Type	Origin	DriveTrain
377	Toyota	Prius 4dr (gas/electric)	Hybrid	Asia	Front
\$20,510					
378	Toyota	Sequoia SR5	SUV	Asia	All
\$35,695					
379	Toyota	4Runner SR5 V6	SUV	Asia	Front
\$27,710					
380	Toyota	Highlander V6	SUV	Asia	All
\$27,930					
381	Toyota	Land Cruiser	SUV	Asia	All
\$54,765					
382	Toyota	RAV4	SUV	Asia	All
\$20,290					
383	Toyota	Corolla CE 4dr	Sedan	Asia	Front
\$14,085					
384	Toyota	Corolla S 4dr	Sedan	Asia	Front
\$15,030					
385	Toyota	Corolla LE 4dr	Sedan	Asia	Front
\$15,295					
386	Toyota	Echo 2dr manual	Sedan	Asia	Front
\$10,760					
387	Toyota	Echo 2dr auto	Sedan	Asia	Front
\$11,560					
388	Toyota	Echo 4dr	Sedan	Asia	Front
\$11,290					
389	Toyota	Camry LE 4dr	Sedan	Asia	Front

\$19,560						
390	Toyota	Camry LE V6 4dr	Sedan	Asia	Front	
\$22,775						
391	Toyota	Camry Solara SE 2dr	Sedan	Asia	Front	
\$19,635						
392	Toyota	Camry Solara SE V6 2dr	Sedan	Asia	Front	
\$21,965						
393	Toyota	Avalon XL 4dr	Sedan	Asia	Front	
\$26,560						
394	Toyota	Camry XLE V6 4dr	Sedan	Asia	Front	
\$25,920						
395	Toyota	Camry Solara SLE V6 2dr	Sedan	Asia	Front	
\$26,510						
396	Toyota	Avalon XLS 4dr	Sedan	Asia	Front	
\$30,920						
397	Toyota	Sienna CE	Sedan	Asia	Front	
\$23,495						
398	Toyota	Sienna XLE Limited	Sedan	Asia	Front	
\$28,800						
399	Toyota	Celica GT-S 2dr	Sports	Asia	Front	
\$22,570						
400	Toyota	MR2 Spyder convertible 2dr	Sports	Asia	Rear	
\$25,130						
401	Toyota	Tacoma	Truck	Asia	Rear	
\$12,800						
402	Toyota	Tundra Regular Cab V6	Truck	Asia	Rear	
\$16,495						
403	Toyota	Tundra Access Cab V6 SR5	Truck	Asia	All	
\$25,935						
404	Toyota	Matrix XR	Wagon	Asia	Front	
\$16,695						

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
377	\$18,926	1.5	4.0	110.0	59.0
51.0					
378	\$31,827	4.7	8.0	240.0	14.0
17.0					
379	\$24,801	4.0	6.0	245.0	18.0
21.0					
380	\$24,915	3.3	6.0	230.0	18.0
24.0					
381	\$47,986	4.7	8.0	325.0	13.0
17.0					
382	\$18,553	2.4	4.0	161.0	22.0
27.0					
383	\$13,065	1.8	4.0	130.0	32.0
40.0					
384	\$13,650	1.8	4.0	130.0	32.0
40.0					

385	\$13,889	1.8	4.0	130.0	32.0
40.0					
386	\$10,144	1.5	4.0	108.0	35.0
43.0					
387	\$10,896	1.5	4.0	108.0	33.0
39.0					
388	\$10,642	1.5	4.0	108.0	35.0
43.0					
389	\$17,558	2.4	4.0	157.0	24.0
33.0					
390	\$20,325	3.0	6.0	210.0	21.0
29.0					
391	\$17,722	2.4	4.0	157.0	24.0
33.0					
392	\$19,819	3.3	6.0	225.0	20.0
29.0					
393	\$23,693	3.0	6.0	210.0	21.0
29.0					
394	\$23,125	3.0	6.0	210.0	21.0
29.0					
395	\$23,908	3.3	6.0	225.0	20.0
29.0					
396	\$27,271	3.0	6.0	210.0	21.0
29.0					
397	\$21,198	3.3	6.0	230.0	19.0
27.0					
398	\$25,690	3.3	6.0	230.0	19.0
27.0					
399	\$20,363	1.8	4.0	180.0	24.0
33.0					
400	\$22,787	1.8	4.0	138.0	26.0
32.0					
401	\$11,879	2.4	4.0	142.0	22.0
27.0					
402	\$14,978	3.4	6.0	190.0	16.0
18.0					
403	\$23,520	3.4	6.0	190.0	14.0
17.0					
404	\$15,156	1.8	4.0	130.0	29.0
36.0					

	Weight	Wheelbase	Length
377	2890.0	106.0	175.0
378	5270.0	118.0	204.0
379	4035.0	110.0	189.0
380	3935.0	107.0	185.0
381	5390.0	112.0	193.0
382	3119.0	98.0	167.0
383	2502.0	102.0	178.0

384	2524.0	102.0	178.0
385	2524.0	102.0	178.0
386	2035.0	93.0	163.0
387	2085.0	93.0	163.0
388	2055.0	93.0	163.0
389	3086.0	107.0	189.0
390	3296.0	107.0	189.0
391	3175.0	107.0	193.0
392	3417.0	107.0	193.0
393	3417.0	107.0	192.0
394	3362.0	107.0	189.0
395	3439.0	107.0	193.0
396	3439.0	107.0	192.0
397	4120.0	119.0	200.0
398	4165.0	119.0	200.0
399	2500.0	102.0	171.0
400	2195.0	97.0	153.0
401	2750.0	103.0	191.0
402	3925.0	128.0	218.0
403	4435.0	128.0	218.0
404	2679.0	102.0	171.0

Volkswagen

	Make	Model	Type	Origin
DriveTrain \				
405	Volkswagen	Touareg V6	SUV	Europe
All				
406	Volkswagen	Golf GLS 4dr	Sedan	Europe
Front				
407	Volkswagen	GTI 1.8T 2dr hatch	Sedan	Europe
Front				
408	Volkswagen	Jetta GLS TDI 4dr	Sedan	Europe
Front				
409	Volkswagen	New Beetle GLS 1.8T 2dr	Sedan	Europe
Front				
410	Volkswagen	Jetta GLI VR6 4dr	Sedan	Europe
Front				
411	Volkswagen	New Beetle GLS convertible 2dr	Sedan	Europe
Front				
412	Volkswagen	Passat GLS 4dr	Sedan	Europe
Front				
413	Volkswagen	Passat GLX V6 4MOTION 4dr	Sedan	Europe
Front				
414	Volkswagen	Passat W8 4MOTION 4dr	Sedan	Europe
Front				
415	Volkswagen	Phaeton 4dr	Sedan	Europe
Front				
416	Volkswagen	Phaeton W12 4dr	Sedan	Europe
Front				
417	Volkswagen	Jetta GL	Wagon	Europe

Front						
418	Volkswagen		Passat GLS 1.8T	Wagon	Europe	
Front						
419	Volkswagen		Passat W8	Wagon	Europe	
Front						
	MSRP	Invoice	EngineSize	Cylinders	Horsepower	
MPG_City \						
405	\$35,515	\$32,243	3.2	6.0	220.0	15.0
406	\$18,715	\$17,478	2.0	4.0	115.0	24.0
407	\$19,825	\$18,109	1.8	4.0	180.0	24.0
408	\$21,055	\$19,638	1.9	4.0	100.0	38.0
409	\$21,055	\$19,638	1.8	4.0	150.0	24.0
410	\$23,785	\$21,686	2.8	6.0	200.0	21.0
411	\$23,215	\$21,689	2.0	4.0	115.0	24.0
412	\$23,955	\$21,898	1.8	4.0	170.0	22.0
413	\$33,180	\$30,583	2.8	6.0	190.0	19.0
414	\$39,235	\$36,052	4.0	8.0	270.0	18.0
415	\$65,000	\$59,912	4.2	8.0	335.0	16.0
416	\$75,000	\$69,130	6.0	12.0	420.0	12.0
417	\$19,005	\$17,427	2.0	4.0	115.0	24.0
418	\$24,955	\$22,801	1.8	4.0	170.0	22.0
419	\$40,235	\$36,956	4.0	8.0	270.0	18.0
	MPG_Highway	Weight	Wheelbase	Length		
405	20.0	5086.0	112.0	187.0		
406	31.0	2897.0	99.0	165.0		
407	31.0	2934.0	99.0	168.0		
408	46.0	3003.0	99.0	172.0		
409	31.0	2820.0	99.0	161.0		
410	30.0	3179.0	99.0	172.0		
411	30.0	3082.0	99.0	161.0		
412	31.0	3241.0	106.0	185.0		
413	26.0	3721.0	106.0	185.0		
414	25.0	3953.0	106.0	185.0		
415	22.0	5194.0	118.0	204.0		

416	19.0	5399.0	118.0	204.0
417	30.0	3034.0	99.0	174.0
418	31.0	3338.0	106.0	184.0
419	25.0	4067.0	106.0	184.0

Volvo

MSRP	Make	Model	Type	Origin	DriveTrain	
420	Volvo	XC90 T6	SUV	Europe	All	\$41,250
421	Volvo	S40 4dr	Sedan	Europe	Front	\$25,135
422	Volvo	S60 2.5 4dr	Sedan	Europe	All	\$31,745
423	Volvo	S60 T5 4dr	Sedan	Europe	Front	\$34,845
424	Volvo	S60 R 4dr	Sedan	Europe	All	\$37,560
425	Volvo	S80 2.9 4dr	Sedan	Europe	Front	\$37,730
426	Volvo	S80 2.5T 4dr	Sedan	Europe	All	\$37,885
427	Volvo	C70 LPT convertible 2dr	Sedan	Europe	Front	\$40,565
428	Volvo	C70 HPT convertible 2dr	Sedan	Europe	Front	\$42,565
429	Volvo	S80 T6 4dr	Sedan	Europe	Front	\$45,210
430	Volvo	V40	Wagon	Europe	Front	\$26,135
431	Volvo	XC70	Wagon	Europe	All	\$35,145

Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \				
420	\$38,851	2.9	6.0	268.0
20.0				15.0
421	\$23,701	1.9	4.0	170.0
29.0				22.0
422	\$29,916	2.5	5.0	208.0
27.0				20.0
423	\$32,902	2.3	5.0	247.0
28.0				20.0
424	\$35,382	2.5	5.0	300.0
25.0				18.0
425	\$35,542	2.9	6.0	208.0
28.0				20.0
426	\$35,688	2.5	5.0	194.0
27.0				20.0
427	\$38,203	2.4	5.0	197.0
28.0				21.0

428	\$40,083	2.3	5.0	242.0	20.0
26.0					
429	\$42,573	2.9	6.0	268.0	19.0
26.0					
430	\$24,641	1.9	4.0	170.0	22.0
29.0					
431	\$33,112	2.5	5.0	208.0	20.0
27.0					

	Weight	Wheelbase	Length
420	4638.0	113.0	189.0
421	2767.0	101.0	178.0
422	3903.0	107.0	180.0
423	3766.0	107.0	180.0
424	3571.0	107.0	181.0
425	3576.0	110.0	190.0
426	3691.0	110.0	190.0
427	3450.0	105.0	186.0
428	3450.0	105.0	186.0
429	3653.0	110.0	190.0
430	2822.0	101.0	180.0
431	3823.0	109.0	186.0

```
df[df['Make']=='Toyota']
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MSRP \	Make	Model	Type	Origin	DriveTrain
377	Toyota	Prius 4dr (gas/electric)	Hybrid	Asia	Front
\$20,510					
378	Toyota	Sequoia SR5	SUV	Asia	All
\$35,695					
379	Toyota	4Runner SR5 V6	SUV	Asia	Front
\$27,710					
380	Toyota	Highlander V6	SUV	Asia	All
\$27,930					
381	Toyota	Land Cruiser	SUV	Asia	All
\$54,765					
382	Toyota	RAV4	SUV	Asia	All
\$20,290					
383	Toyota	Corolla CE 4dr	Sedan	Asia	Front
\$14,085					
384	Toyota	Corolla S 4dr	Sedan	Asia	Front
\$15,030					
385	Toyota	Corolla LE 4dr	Sedan	Asia	Front
\$15,295					
386	Toyota	Echo 2dr manual	Sedan	Asia	Front
\$10,760					
387	Toyota	Echo 2dr auto	Sedan	Asia	Front
\$11,560					
388	Toyota	Echo 4dr	Sedan	Asia	Front

\$11,290						
389	Toyota	Camry LE 4dr	Sedan	Asia	Front	
\$19,560						
390	Toyota	Camry LE V6 4dr	Sedan	Asia	Front	
\$22,775						
391	Toyota	Camry Solara SE 2dr	Sedan	Asia	Front	
\$19,635						
392	Toyota	Camry Solara SE V6 2dr	Sedan	Asia	Front	
\$21,965						
393	Toyota	Avalon XL 4dr	Sedan	Asia	Front	
\$26,560						
394	Toyota	Camry XLE V6 4dr	Sedan	Asia	Front	
\$25,920						
395	Toyota	Camry Solara SLE V6 2dr	Sedan	Asia	Front	
\$26,510						
396	Toyota	Avalon XLS 4dr	Sedan	Asia	Front	
\$30,920						
397	Toyota	Sienna CE	Sedan	Asia	Front	
\$23,495						
398	Toyota	Sienna XLE Limited	Sedan	Asia	Front	
\$28,800						
399	Toyota	Celica GT-S 2dr	Sports	Asia	Front	
\$22,570						
400	Toyota	MR2 Spyder convertible 2dr	Sports	Asia	Rear	
\$25,130						
401	Toyota	Tacoma	Truck	Asia	Rear	
\$12,800						
402	Toyota	Tundra Regular Cab V6	Truck	Asia	Rear	
\$16,495						
403	Toyota	Tundra Access Cab V6 SR5	Truck	Asia	All	
\$25,935						
404	Toyota	Matrix XR	Wagon	Asia	Front	
\$16,695						

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
377	\$18,926	1.5	4.0	110.0	59.0
51.0					
378	\$31,827	4.7	8.0	240.0	14.0
17.0					
379	\$24,801	4.0	6.0	245.0	18.0
21.0					
380	\$24,915	3.3	6.0	230.0	18.0
24.0					
381	\$47,986	4.7	8.0	325.0	13.0
17.0					
382	\$18,553	2.4	4.0	161.0	22.0
27.0					
383	\$13,065	1.8	4.0	130.0	32.0



40.0					
384	\$13,650	1.8	4.0	130.0	32.0
40.0					
385	\$13,889	1.8	4.0	130.0	32.0
40.0					
386	\$10,144	1.5	4.0	108.0	35.0
43.0					
387	\$10,896	1.5	4.0	108.0	33.0
39.0					
388	\$10,642	1.5	4.0	108.0	35.0
43.0					
389	\$17,558	2.4	4.0	157.0	24.0
33.0					
390	\$20,325	3.0	6.0	210.0	21.0
29.0					
391	\$17,722	2.4	4.0	157.0	24.0
33.0					
392	\$19,819	3.3	6.0	225.0	20.0
29.0					
393	\$23,693	3.0	6.0	210.0	21.0
29.0					
394	\$23,125	3.0	6.0	210.0	21.0
29.0					
395	\$23,908	3.3	6.0	225.0	20.0
29.0					
396	\$27,271	3.0	6.0	210.0	21.0
29.0					
397	\$21,198	3.3	6.0	230.0	19.0
27.0					
398	\$25,690	3.3	6.0	230.0	19.0
27.0					
399	\$20,363	1.8	4.0	180.0	24.0
33.0					
400	\$22,787	1.8	4.0	138.0	26.0
32.0					
401	\$11,879	2.4	4.0	142.0	22.0
27.0					
402	\$14,978	3.4	6.0	190.0	16.0
18.0					
403	\$23,520	3.4	6.0	190.0	14.0
17.0					
404	\$15,156	1.8	4.0	130.0	29.0
36.0					

	Weight	Wheelbase	Length
377	2890.0	106.0	175.0
378	5270.0	118.0	204.0
379	4035.0	110.0	189.0
380	3935.0	107.0	185.0

381	5390.0	112.0	193.0
382	3119.0	98.0	167.0
383	2502.0	102.0	178.0
384	2524.0	102.0	178.0
385	2524.0	102.0	178.0
386	2035.0	93.0	163.0
387	2085.0	93.0	163.0
388	2055.0	93.0	163.0
389	3086.0	107.0	189.0
390	3296.0	107.0	189.0
391	3175.0	107.0	193.0
392	3417.0	107.0	193.0
393	3417.0	107.0	192.0
394	3362.0	107.0	189.0
395	3439.0	107.0	193.0
396	3439.0	107.0	192.0
397	4120.0	119.0	200.0
398	4165.0	119.0	200.0
399	2500.0	102.0	171.0
400	2195.0	97.0	153.0
401	2750.0	103.0	191.0
402	3925.0	128.0	218.0
403	4435.0	128.0	218.0
404	2679.0	102.0	171.0

```
g.get_group('Toyota')
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	Make	Model	Type	Origin	DriveTrain
MSRP \					
377	Toyota	Prius 4dr (gas/electric)	Hybrid	Asia	Front
\$20,510					
378	Toyota	Sequoia SR5	SUV	Asia	All
\$35,695					
379	Toyota	4Runner SR5 V6	SUV	Asia	Front
\$27,710					
380	Toyota	Highlander V6	SUV	Asia	All
\$27,930					
381	Toyota	Land Cruiser	SUV	Asia	All
\$54,765					
382	Toyota	RAV4	SUV	Asia	All
\$20,290					
383	Toyota	Corolla CE 4dr	Sedan	Asia	Front
\$14,085					
384	Toyota	Corolla S 4dr	Sedan	Asia	Front
\$15,030					
385	Toyota	Corolla LE 4dr	Sedan	Asia	Front
\$15,295					
386	Toyota	Echo 2dr manual	Sedan	Asia	Front
\$10,760					
387	Toyota	Echo 2dr auto	Sedan	Asia	Front

\$11,560						
388	Toyota	Echo 4dr	Sedan	Asia	Front	
\$11,290						
389	Toyota	Camry LE 4dr	Sedan	Asia	Front	
\$19,560						
390	Toyota	Camry LE V6 4dr	Sedan	Asia	Front	
\$22,775						
391	Toyota	Camry Solara SE 2dr	Sedan	Asia	Front	
\$19,635						
392	Toyota	Camry Solara SE V6 2dr	Sedan	Asia	Front	
\$21,965						
393	Toyota	Avalon XL 4dr	Sedan	Asia	Front	
\$26,560						
394	Toyota	Camry XLE V6 4dr	Sedan	Asia	Front	
\$25,920						
395	Toyota	Camry Solara SLE V6 2dr	Sedan	Asia	Front	
\$26,510						
396	Toyota	Avalon XLS 4dr	Sedan	Asia	Front	
\$30,920						
397	Toyota	Sienna CE	Sedan	Asia	Front	
\$23,495						
398	Toyota	Sienna XLE Limited	Sedan	Asia	Front	
\$28,800						
399	Toyota	Celica GT-S 2dr	Sports	Asia	Front	
\$22,570						
400	Toyota	MR2 Spyder convertible 2dr	Sports	Asia	Rear	
\$25,130						
401	Toyota	Tacoma	Truck	Asia	Rear	
\$12,800						
402	Toyota	Tundra Regular Cab V6	Truck	Asia	Rear	
\$16,495						
403	Toyota	Tundra Access Cab V6 SR5	Truck	Asia	All	
\$25,935						
404	Toyota	Matrix XR	Wagon	Asia	Front	
\$16,695						

	Invoice	EngineSize	Cylinders	Horsepower	MPG_City
MPG_Highway \					
377	\$18,926	1.5	4.0	110.0	59.0
51.0					
378	\$31,827	4.7	8.0	240.0	14.0
17.0					
379	\$24,801	4.0	6.0	245.0	18.0
21.0					
380	\$24,915	3.3	6.0	230.0	18.0
24.0					
381	\$47,986	4.7	8.0	325.0	13.0
17.0					
382	\$18,553	2.4	4.0	161.0	22.0

27.0					
383	\$13,065	1.8	4.0	130.0	32.0
40.0					
384	\$13,650	1.8	4.0	130.0	32.0
40.0					
385	\$13,889	1.8	4.0	130.0	32.0
40.0					
386	\$10,144	1.5	4.0	108.0	35.0
43.0					
387	\$10,896	1.5	4.0	108.0	33.0
39.0					
388	\$10,642	1.5	4.0	108.0	35.0
43.0					
389	\$17,558	2.4	4.0	157.0	24.0
33.0					
390	\$20,325	3.0	6.0	210.0	21.0
29.0					
391	\$17,722	2.4	4.0	157.0	24.0
33.0					
392	\$19,819	3.3	6.0	225.0	20.0
29.0					
393	\$23,693	3.0	6.0	210.0	21.0
29.0					
394	\$23,125	3.0	6.0	210.0	21.0
29.0					
395	\$23,908	3.3	6.0	225.0	20.0
29.0					
396	\$27,271	3.0	6.0	210.0	21.0
29.0					
397	\$21,198	3.3	6.0	230.0	19.0
27.0					
398	\$25,690	3.3	6.0	230.0	19.0
27.0					
399	\$20,363	1.8	4.0	180.0	24.0
33.0					
400	\$22,787	1.8	4.0	138.0	26.0
32.0					
401	\$11,879	2.4	4.0	142.0	22.0
27.0					
402	\$14,978	3.4	6.0	190.0	16.0
18.0					
403	\$23,520	3.4	6.0	190.0	14.0
17.0					
404	\$15,156	1.8	4.0	130.0	29.0
36.0					
	Weight	Wheelbase	Length		
377	2890.0	106.0	175.0		
378	5270.0	118.0	204.0		

379	4035.0	110.0	189.0
380	3935.0	107.0	185.0
381	5390.0	112.0	193.0
382	3119.0	98.0	167.0
383	2502.0	102.0	178.0
384	2524.0	102.0	178.0
385	2524.0	102.0	178.0
386	2035.0	93.0	163.0
387	2085.0	93.0	163.0
388	2055.0	93.0	163.0
389	3086.0	107.0	189.0
390	3296.0	107.0	189.0
391	3175.0	107.0	193.0
392	3417.0	107.0	193.0
393	3417.0	107.0	192.0
394	3362.0	107.0	189.0
395	3439.0	107.0	193.0
396	3439.0	107.0	192.0
397	4120.0	119.0	200.0
398	4165.0	119.0	200.0
399	2500.0	102.0	171.0
400	2195.0	97.0	153.0
401	2750.0	103.0	191.0
402	3925.0	128.0	218.0
403	4435.0	128.0	218.0
404	2679.0	102.0	171.0

```
g1=g['Length'].mean(numeric_only=True)
g1
```

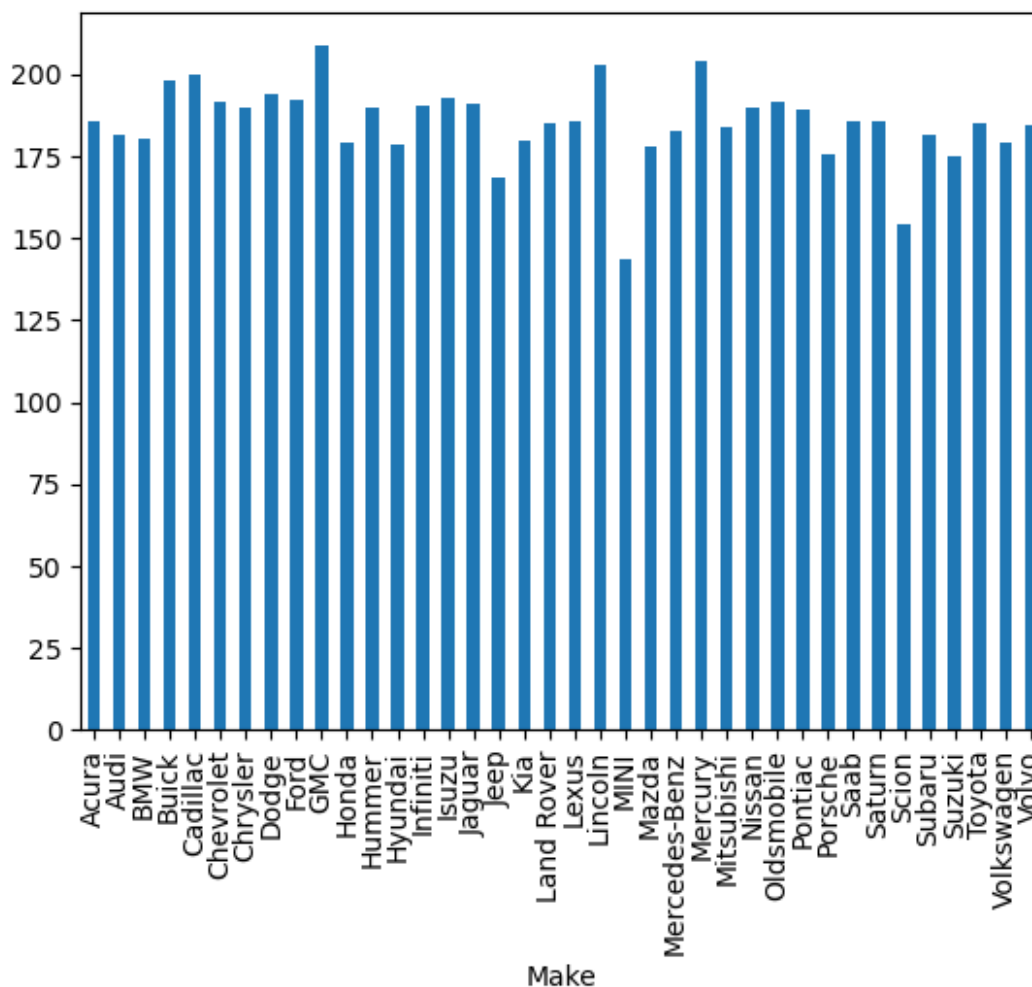
Make	
Acura	185.428571
Audi	181.421053
BMW	180.100000
Buick	197.888889
Cadillac	199.750000
Chevrolet	191.629630
Chrysler	190.000000
Dodge	194.230769
Ford	191.913043
GMC	208.500000
Honda	179.294118
Hummer	190.000000
Hyundai	178.583333
Infiniti	190.625000
Isuzu	193.000000
Jaguar	191.000000
Jeep	168.333333
Kia	179.727273
Land Rover	185.000000

Lexus	185.636364
Lincoln	202.888889
MINI	143.500000
Mazda	177.818182
Mercedes-Benz	182.653846
Mercury	204.222222
Mitsubishi	184.000000
Nissan	189.588235
Oldsmobile	191.666667
Pontiac	189.181818
Porsche	175.428571
Saab	185.714286
Saturn	185.750000
Scion	154.500000
Subaru	181.545455
Suzuki	175.125000
Toyota	185.285714
Volkswagen	179.400000
Volvo	184.666667

Name: Length, dtype: float64

```
g1.plot(kind='bar')
```

```
<Axes: xlabel='Make'>
```



```
g1.max()
```

```
208.5
```

```
g.get_group('Toyota').min()
```

```
Make      Toyota
Model     4Runner SR5 V6
Type      Hybrid
Origin    Asia
DriveTrain All
MSRP      $10,760
Invoice   $10,144
EngineSize 1.5
Cylinders  4.0
Horsepower 108.0
MPG_City   13.0
MPG_Highway 17.0
Weight     2035.0
```

```
Wheelbase          93.0
Length            153.0
dtype: object

g.get_group('Toyota')['MSRP'].max()

'$54,765 '

g.get_group('BMW')['MSRP'].describe()

count          20
unique          20
top      $37,000
freq              1
Name: MSRP, dtype: object
```

<https://github.com/srisabarivasan/My-Project/tree/9c0302d69d7e97e1734b8969ab9e60feb3aa2321/Data%20Analysis>