Intro

Contents

1	Intro 1 1.1 Sub 1	
	1.1.1 Section 1	О
2	Intro 2	8
	2.0.1 Exercises 3.2.1	8
##	data.table 1.11.4 Latest news: http://r-datatable.com	
##	Warning in library(package, lib.loc = lib.loc, character.only = TRUE,	
##	logical.return = TRUE, : there is no package called 'directlabels'	

manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
audi	a4	1.8	1999	4	auto(l5)	f	18	29	р	compact
audi	a4	1.8	1999	4	manual(m5)	f	21	29	p	compact
audi	a4	2.0	2008	4	manual(m6)	f	20	31	p	compact
audi	a4	2.0	2008	4	auto(av)	f	21	30	p	compact
audi	a4	2.8	1999	6	auto(15)	f	16	26	p	compact
audi	a4	2.8	1999	6	manual(m5)	f	18	26	p	compact
audi	a4	3.1	2008	6	auto(av)	f	18	27	p	compact
audi	a4 quattro	1.8	1999	4	manual(m5)	4	18	26	p	compact
audi	a4 quattro	1.8	1999	4	auto(15)	4	16	25	p	compact
audi	a4 quattro	2.0	2008	4	manual(m6)	4	20	28	p	compact
audi	a4 quattro	2.0	2008	4	auto(s6)	4	19	27	p	compact
audi	a4 quattro	2.8	1999	6	auto(15)	4	15	25	p	compact
audi	a4 quattro	2.8	1999	6	manual(m5)	4	17	25	p	compact
audi	a4 quattro	3.1	2008	6	auto(s6)	4	17	25	p	compact
audi	a4 quattro	3.1	2008	6	manual(m6)	4	15	25	p	compact
audi	a6 quattro	2.8	1999	6	auto(15)	4	15	24	p	midsize
audi	a6 quattro	3.1	2008	6	auto(s6)	4	17	25	p	midsize
audi	a6 quattro	4.2	2008	8	auto(s6)	4	16	23	p	midsize
chevrolet	c1500 suburban 2wd	5.3	2008	8	auto(l4)	\mathbf{r}	14	20	r	suv
chevrolet	c1500 suburban $2wd$	5.3	2008	8	auto(l4)	r	11	15	e	suv
chevrolet	c1500 suburban $2wd$	5.3	2008	8	auto(l4)	r	14	20	r	suv
chevrolet	c1500 suburban $2wd$	5.7	1999	8	auto(l4)	r	13	17	r	suv
chevrolet	c1500 suburban $2wd$	6.0	2008	8	auto(l4)	r	12	17	r	suv
chevrolet	corvette	5.7	1999	8	manual(m6)	\mathbf{r}	16	26	p	2seater
chevrolet	corvette	5.7	1999	8	auto(l4)	r	15	23	p	2seater
chevrolet	corvette	6.2	2008	8	manual(m6)	\mathbf{r}	16	26	p	2seater
chevrolet	corvette	6.2	2008	8	auto(s6)	r	15	25	p	2seater
chevrolet	corvette	7.0	2008	8	manual(m6)	r	15	24	р	2seater
chevrolet	k1500 tahoe $4wd$	5.3	2008	8	auto(l4)	4	14	19	r	suv
chevrolet	k1500 tahoe $4wd$	5.3	2008	8	auto(l4)	4	11	14	e	suv

Chevrolet	manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
chevrolet malibu 2.4 1999 4 auto(14) f 1.9 2.7 r midsize chevrolet malibu 2.4 2008 6 auto(14) f 1.8 2.9 r midsize chevrolet malibu 3.5 2008 6 auto(4) f 1.8 2.9 r midsize chevrolet malibu 3.6 2008 6 auto(4) f 1.8 2.9 r midsize dodge caravan 2wd 3.0 1999 6 auto(4) f 1.7 2.4 r minivan dodge caravan 2wd 3.3 1999 6 auto(4) f 1.6 2.2 r minivan dodge caravan 2wd 3.3 2008 6 auto(4) f 1.7 2.4 r minivan dodge caravan 2wd 3.8 1999 6 auto(4) f 1.5 1.2 </td <td>chevrolet</td> <td>k1500 tahoe 4wd</td> <td>5.7</td> <td>1999</td> <td>8</td> <td>auto(l4)</td> <td>4</td> <td>11</td> <td>15</td> <td>r</td> <td>suv</td>	chevrolet	k1500 tahoe 4wd	5.7	1999	8	auto(l4)	4	11	15	r	suv
chevrolet malibu 2.4 2008 4 auto(14) f 22 30 r midisze chevrolet malibu 3.5 2008 6 auto(4) f 18 26 r midisze chevrolet malibu 3.6 2008 6 auto(3) f 18 24 r midisze dodge caravan 2wd 3.0 1999 6 auto(4) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 15 21	chevrolet	k1500 tahoe $4wd$	6.5	1999	8	auto(l4)	4	14	17	d	suv
chevrolet malibu 3.1 1999 6 auto(14) f 18 26 r midsize chevrolet malibu 3.5 2008 6 auto(14) f 18 29 r midsize chevrolet malibu 3.6 2008 6 auto(3) f 17 24 r midsize dodge caravan 2wd 3.0 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 19	chevrolet	malibu	2.4	1999	4	auto(14)	f	19	27	r	midsize
chevrolet malibu 3.5 2008 6 auto(14) f 1.8 29 r midsize chevrolet malibu 3.6 2008 6 auto(36) f 1.8 24 r minisze dodge caravan 2wd 3.0 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 21	chevrolet	malibu	2.4	2008	4	auto(14)	f	22	30	r	midsize
chevrolet malibu 3.6 2008 6 auto(s6) f 17 26 r midsize dodge caravan 2wd 3.0 1999 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 <td>chevrolet</td> <td>malibu</td> <td>3.1</td> <td>1999</td> <td>6</td> <td>auto(14)</td> <td>f</td> <td>18</td> <td>26</td> <td>r</td> <td>midsize</td>	chevrolet	malibu	3.1	1999	6	auto(14)	f	18	26	r	midsize
dodge caravan 2wd 3.4 1999 4 auto(l4) f 18 24 r minivan dodge caravan 2wd 3.0 1999 6 auto(l4) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(l4) f 16 22 r minivan dodge caravan 2wd 3.3 2008 6 auto(l4) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(l4) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(l4) f 15 22 r minivan dodge caravan 2wd 3.8 2008 6 auto(l4) f 15 21 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(l6) f 16 23 </td <td>chevrolet</td> <td>malibu</td> <td>3.5</td> <td>2008</td> <td>6</td> <td>auto(14)</td> <td>f</td> <td>18</td> <td>29</td> <td>r</td> <td>midsize</td>	chevrolet	malibu	3.5	2008	6	auto(14)	f	18	29	r	midsize
dodge caravan 2wd 3.0 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(16) f 16 23 r minivan dodge caravan 2wd 4.0 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 </td <td>chevrolet</td> <td>malibu</td> <td>3.6</td> <td>2008</td> <td>6</td> <td>auto(s6)</td> <td>f</td> <td>17</td> <td>26</td> <td>r</td> <td>midsize</td>	chevrolet	malibu	3.6	2008	6	auto(s6)	f	17	26	r	midsize
dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 21 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 21 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 21 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 14 <t< td=""><td>dodge</td><td>caravan 2wd</td><td>2.4</td><td>1999</td><td>4</td><td>auto(13)</td><td>\mathbf{f}</td><td>18</td><td>24</td><td>r</td><td>minivan</td></t<>	dodge	caravan 2wd	2.4	1999	4	auto(13)	\mathbf{f}	18	24	r	minivan
dodge caravan 2wd 3.3 1999 6 auto(14) f 16 22 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 11 17 e minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 8 auto(14) 4 14 <t< td=""><td>dodge</td><td>caravan 2wd</td><td>3.0</td><td>1999</td><td>6</td><td>auto(14)</td><td>f</td><td>17</td><td>24</td><td>r</td><td>minivan</td></t<>	dodge	caravan 2wd	3.0	1999	6	auto(14)	f	17	24	r	minivan
dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(16) f 16 23 r minivan dodge caravan 2wd 4.0 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 14	dodge	caravan 2wd	3.3	1999	6	auto(14)	f	16	22	r	minivan
dodge caravan 2wd 3.3 2008 6 auto(14) f 17 24 r minivan dodge caravan 2wd 3.3 2008 6 auto(14) f 11 17 c minivan dodge caravan 2wd 3.8 1999 6 auto(14) f 15 22 r minivan dodge caravan 2wd 3.8 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(15) 4 14	dodge	caravan 2wd	3.3	1999	6	auto(14)	f	16	22	r	minivan
dodge caravan 2wd 3.3 2008 6 auto(l4) f 11 17 e minivan dodge caravan 2wd 3.8 1999 6 auto(l4) f 15 22 r minivan dodge caravan 2wd 3.8 2008 6 auto(l6) f 16 23 r minivan dodge caravan 2wd 4.0 2008 6 auto(l6) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(l4) 4 15 19 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(l4) 4 13 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(l5) 4 14 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(l5) 4 14	dodge	caravan 2wd	3.3	2008	6	auto(14)	f	17	24	r	minivan
dodge caravan 2wd 3.8 1999 6 auto(l4) f 15 22 r minivan dodge caravan 2wd 3.8 1999 6 auto(l4) f 15 21 r minivan dodge caravan 2wd 4.0 2008 6 auto(l6) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(l4) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(l4) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(l4) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(l5) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(l5) 4 11 </td <td>dodge</td> <td>caravan 2wd</td> <td>3.3</td> <td>2008</td> <td>6</td> <td>auto(14)</td> <td>f</td> <td>17</td> <td>24</td> <td>r</td> <td>minivan</td>	dodge	caravan 2wd	3.3	2008	6	auto(14)	f	17	24	r	minivan
dodge caravan 2wd 3.8 1999 6 auto(14) f 15 21 r minivan dodge caravan 2wd 3.8 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 15 19 r pickup dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 13 17 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(15) 4 11 <td< td=""><td>dodge</td><td>caravan 2wd</td><td>3.3</td><td>2008</td><td>6</td><td>auto(14)</td><td>f</td><td>11</td><td>17</td><td>e</td><td>minivan</td></td<>	dodge	caravan 2wd	3.3	2008	6	auto(14)	f	11	17	e	minivan
dodge caravan 2wd 4.0 2008 6 auto(16) f 16 23 r minivan dodge caravan 2wd 4.0 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 manual(m5) 4 14 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(15) 4 <	dodge	caravan 2wd	3.8	1999	6	auto(l4)	f	15	22	r	minivan
dodge caravan 2wd 4.0 2008 6 auto(16) f 16 23 r minivan dodge dakota pickup 4wd 3.7 2008 6 manual(m6) 4 15 19 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 manual(m5) 4 14 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(15) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4	dodge	caravan 2wd	3.8	1999	6	auto(l4)	f	15	21	r	minivan
dodge dakota pickup 4wd 3.7 2008 6 manual(m6) 4 15 19 r pickup dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 14 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(15) 4 11 15 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4	dodge	caravan 2wd	3.8	2008	6	auto(l6)	f	16	23	r	minivan
dodge dakota pickup 4wd 3.7 2008 6 auto(14) 4 14 18 r pickup dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 13 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 manual(m5) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4	dodge	caravan 2wd	4.0	2008	6	auto(l6)	f	16	23	r	minivan
dodge dakota pickup 4wd 3.9 1999 6 auto(14) 4 13 17 r pickup dodge dakota pickup 4wd 3.9 1999 6 manual(m5) 4 14 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 manual(m5) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(15) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 17 r pickup dodge durango 4wd 4.7 2008 8 auto(15) 4	dodge	dakota pickup 4wd	3.7	2008	6	manual(m6)	4	15	19	r	pickup
dodge dakota pickup 4wd 3.9 1999 6 manual(m5) 4 14 17 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge dakota pickup 4wd 5.2 1999 8 manual(m5) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge durango 4wd 4.7 2008 8 auto(15) 4	dodge	dakota pickup 4wd	3.7	2008	6	auto(l4)	4	14	18	r	pickup
dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 14 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 manual(m5) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge durango 4wd 3.9 1999 6 auto(14) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 5.2 1999 8 auto(15) 4 13	dodge	dakota pickup 4wd	3.9	1999	6	auto(l4)	4	13	17	r	pickup
dodge dakota pickup 4wd 4.7 2008 8 auto(I5) 4 14 19 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(I5) 4 9 12 e pickup dodge dakota pickup 4wd 5.2 1999 8 auto(I4) 4 11 15 r pickup dodge durango 4wd 3.9 1999 6 auto(I4) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(I5) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(I5) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(I5) 4 13 17 r suv dodge durango 4wd 5.7 2008 8 auto(I5) 4 13 18	dodge	dakota pickup 4wd	3.9	1999	6	manual(m5)	4	14	17	r	pickup
dodge dakota pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge dakota pickup 4wd 5.2 1999 8 manual(m5) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge durango 4wd 3.9 1999 6 auto(14) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.7 2008 8 auto(14) 4 11 16	dodge	dakota pickup 4wd	4.7	2008	8	auto(l5)	4	14	19	r	pickup
dodge dakota pickup 4wd 5.2 1999 8 manual(m5) 4 11 17 r pickup dodge dakota pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge durango 4wd 3.9 1999 6 auto(14) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 11 16 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 11 16 r suv dodge durango 4wd 5.9 1999 8 auto(15) 4 11 15	dodge	dakota pickup 4wd	4.7	2008	8	auto(l5)	4	14	19	r	pickup
dodge dakota pickup 4wd 5.2 1999 8 auto(l4) 4 11 15 r pickup dodge durango 4wd 3.9 1999 6 auto(l4) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(l5) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(l5) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(l5) 4 13 17 r suv dodge durango 4wd 5.7 2008 8 auto(l5) 4 13 18 r suv dodge durango 4wd 5.7 2008 8 auto(l5) 4 13 18 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 auto(l5) 4 9 12 e <td>dodge</td> <td>dakota pickup 4wd</td> <td>4.7</td> <td>2008</td> <td>8</td> <td>auto(l5)</td> <td>4</td> <td>9</td> <td>12</td> <td>e</td> <td>pickup</td>	dodge	dakota pickup 4wd	4.7	2008	8	auto(l5)	4	9	12	e	pickup
dodge durango 4wd 3.9 1999 6 auto(14) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 5.2 1999 8 auto(14) 4 11 16 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.9 1999 8 auto(14) 4 11 15 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r	dodge	dakota pickup 4wd	5.2	1999	8	manual(m5)	4	11	17	r	pickup
dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 5.2 1999 8 auto(14) 4 11 16 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.7 2008 8 auto(14) 4 11 15 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 <t< td=""><td>dodge</td><td>dakota pickup 4wd</td><td>5.2</td><td>1999</td><td>8</td><td>auto(l4)</td><td>4</td><td>11</td><td>15</td><td>r</td><td>pickup</td></t<>	dodge	dakota pickup 4wd	5.2	1999	8	auto(l4)	4	11	15	r	pickup
dodge durango 4wd 4.7 2008 8 auto(15) 4 9 12 e suv dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 5.2 1999 8 auto(14) 4 11 16 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16	dodge	durango 4wd	3.9	1999	6	auto(l4)	4	13	17	r	suv
dodge durango 4wd 4.7 2008 8 auto(15) 4 13 17 r suv dodge durango 4wd 5.2 1999 8 auto(14) 4 11 16 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.9 1999 8 auto(15) 4 13 18 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m5) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9	dodge	durango 4wd	4.7	2008	8	auto(l5)	4	13	17	r	suv
dodge durango 4wd 5.2 1999 8 auto(14) 4 11 16 r suv dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.9 1999 8 auto(14) 4 11 15 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9	dodge	durango 4wd	4.7	2008	8	auto(l5)	4	9	12	e	suv
dodge durango 4wd 5.7 2008 8 auto(15) 4 13 18 r suv dodge durango 4wd 5.9 1999 8 auto(14) 4 11 15 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 manual(m5) 4	dodge	durango 4wd	4.7	2008	8	auto(l5)	4	13	17	r	suv
dodge durango 4wd 5.9 1999 8 auto(14) 4 11 15 r suv dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.2 1999 8 manual(m5) <	dodge	durango 4wd	5.2	1999	8	auto(l4)	4	11	16	r	suv
dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.2 1999 8 manual(m5) 4 11 16 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(14) <td>dodge</td> <td>durango 4wd</td> <td>5.7</td> <td>2008</td> <td>8</td> <td>auto(l5)</td> <td>4</td> <td>13</td> <td>18</td> <td>r</td> <td>suv</td>	dodge	durango 4wd	5.7	2008	8	auto(l5)	4	13	18	r	suv
dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 9 12 e pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15)	dodge	durango 4wd	5.9	1999	8	auto(l4)	4	11	15	r	suv
dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(14)	dodge	ram 1500 pickup 4 wd	4.7	2008	8	manual(m6)	4	12	16	r	pickup
dodge ram 1500 pickup 4wd 4.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(14) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(14) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(14)	dodge	ram 1500 pickup 4 wd	4.7	2008	8	auto(l5)	4	9	12	e	pickup
dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 12 16 r pickup dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(l4) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(l5) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(l4) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(l4) r 11 17 r suv	dodge	ram 1500 pickup 4 wd	4.7	2008	8	auto(15)	4	13	17	r	pickup
dodge ram 1500 pickup 4wd 4.7 2008 8 manual(m6) 4 9 12 e pickup dodge ram 1500 pickup 4wd 5.2 1999 8 auto(l4) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.2 1999 8 manual(m5) 4 11 16 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(l5) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(l4) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(l4) r 11 17 r suv	dodge	ram 1500 pickup 4 wd	4.7	2008	8	auto(15)	4	13	17	r	pickup
dodge ram 1500 pickup 4wd 5.2 1999 8 auto(l4) 4 11 15 r pickup dodge ram 1500 pickup 4wd 5.2 1999 8 manual(m5) 4 11 16 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(l5) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(l4) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(l4) r 11 17 r suv	dodge	ram 1500 pickup 4 wd	4.7	2008	8	manual(m6)	4	12	16	r	pickup
dodge ram 1500 pickup 4wd 5.2 1999 8 manual(m5) 4 11 16 r pickup dodge ram 1500 pickup 4wd 5.7 2008 8 auto(l5) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(l4) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(l4) r 11 17 r suv	dodge	ram 1500 pickup 4wd	4.7	2008	8	manual(m6)	4	9	12	e	pickup
dodge ram 1500 pickup 4wd 5.7 2008 8 auto(15) 4 13 17 r pickup dodge ram 1500 pickup 4wd 5.9 1999 8 auto(14) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(14) r 11 17 r suv	dodge		5.2	1999	8		4	11	15	r	pickup
dodge ram 1500 pickup 4wd 5.9 1999 8 auto(l4) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(l4) r 11 17 r suv	dodge	ram 1500 pickup 4wd	5.2	1999	8	manual(m5)	4	11	16	r	pickup
dodge ram 1500 pickup 4wd 5.9 1999 8 auto(l4) 4 11 15 r pickup ford expedition 2wd 4.6 1999 8 auto(l4) r 11 17 r suv	_	ram 1500 pickup 4wd	5.7	2008	8	` ′	4	13	17	r	
ford expedition 2wd 4.6 1999 8 auto(14) r 11 17 r suv	_		5.9	1999		` '	4	11	15	r	
	_					` '	\mathbf{r}			r	
	ford	_	5.4	1999	8	auto(14)	r	11	17	\mathbf{r}	suv

manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
ford	expedition 2wd	5.4	2008	8	auto(l6)	r	12	18	r	suv
ford	explorer 4wd	4.0	1999	6	auto(15)	4	14	17	r	suv
ford	explorer 4wd	4.0	1999	6	manual(m5)	4	15	19	r	suv
ford	explorer 4wd	4.0	1999	6	auto(15)	4	14	17	r	suv
ford	explorer 4wd	4.0	2008	6	auto(15)	4	13	19	r	suv
ford	explorer 4wd	4.6	2008	8	auto(16)	4	13	19	r	suv
ford	explorer 4wd	5.0	1999	8	auto(14)	4	13	17	r	suv
ford	f150 pickup 4wd	4.2	1999	6	auto(14)	4	14	17	r	pickup
ford	f150 pickup 4wd	4.2	1999	6	manual(m5)	4	14	17	r	pickup
ford	f150 pickup 4wd	4.6	1999	8	manual(m5)	4	13	16	r	pickup
ford	f150 pickup 4 wd	4.6	1999	8	auto(l4)	4	13	16	r	pickup
ford	f150 pickup 4wd	4.6	2008	8	auto(l4)	4	13	17	r	pickup
ford	f150 pickup 4wd	5.4	1999	8	auto(l4)	4	11	15	r	pickup
ford	f150 pickup 4wd	5.4	2008	8	auto(l4)	4	13	17	r	pickup
ford	mustang	3.8	1999	6	manual(m5)	r	18	26	r	subcompact
ford	mustang	3.8	1999	6	auto(l4)	r	18	25	r	subcompact
ford	mustang	4.0	2008	6	manual(m5)	r	17	26	r	subcompact
ford	mustang	4.0	2008	6	auto(l5)	\mathbf{r}	16	24	r	subcompact
ford	mustang	4.6	1999	8	auto(l4)	\mathbf{r}	15	21	r	subcompact
ford	mustang	4.6	1999	8	manual(m5)	\mathbf{r}	15	22	r	subcompact
ford	mustang	4.6	2008	8	manual(m5)	\mathbf{r}	15	23	r	subcompact
ford	mustang	4.6	2008	8	auto(l5)	\mathbf{r}	15	22	r	subcompact
ford	mustang	5.4	2008	8	manual(m6)	r	14	20	p	subcompact
honda	civic	1.6	1999	4	manual(m5)	f	28	33	r	subcompact
honda	civic	1.6	1999	4	auto(l4)	f	24	32	r	subcompact
honda	civic	1.6	1999	4	manual(m5)	f	25	32	r	subcompact
honda	civic	1.6	1999	4	manual(m5)	f	23	29	p	subcompact
honda	civic	1.6	1999	4	auto(l4)	f	24	32	r	subcompact
honda	civic	1.8	2008	4	manual(m5)	f	26	34	r	subcompact
honda	civic	1.8	2008	4	auto(l5)	f	25	36	r	subcompact
honda	civic	1.8	2008	4	auto(l5)	f	24	36	\mathbf{c}	subcompact
honda	civic	2.0	2008	4	manual(m6)	f	21	29	р	subcompact
hyundai	sonata	2.4	1999	4	auto(l4)	f	18	26	r	midsize
hyundai	sonata	2.4	1999	4	manual(m5)	f	18	27	r	midsize
hyundai	sonata	2.4	2008	4	auto(l4)	f	21	30	r	midsize
hyundai	sonata	2.4	2008	4	manual(m5)	f	21	31	r	midsize
hyundai	sonata	2.5	1999	6	auto(l4)	f	18	26	r	midsize
hyundai	sonata	2.5	1999	6	manual(m5)	f	18	26	r	midsize
hyundai	sonata	3.3	2008	6	auto(l5)	f	19	28	r	midsize
hyundai	tiburon	2.0	1999	4	auto(l4)	f	19	26	r	subcompact
hyundai	tiburon	2.0	1999	4	manual(m5)	f	19	29	r	subcompact
hyundai	tiburon	2.0	2008	4	manual(m5)	f	20	28	r	subcompact
hyundai	tiburon	2.0	2008	4	auto(l4)	f	20	27	r	subcompact
hyundai	tiburon	2.7	2008	6	auto(l4)	f	17	24	r	subcompact
hyundai	tiburon	2.7	2008	6	manual(m6)	f	16	24	r	subcompact
hyundai	tiburon	2.7	2008	6	manual(m5)	\mathbf{f}	17	24	r	subcompact

manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
jeep	grand cherokee 4wd	3.0	2008	6	auto(15)	4	17	22	\mathbf{d}	suv
jeep	grand cherokee 4wd	3.7	2008	6	auto(15)	4	15	19	\mathbf{r}	suv
jeep	grand cherokee 4wd	4.0	1999	6	auto(14)	4	15	20	r	suv
jeep	grand cherokee 4wd	4.7	1999	8	auto(14)	4	14	17	r	suv
jeep	grand cherokee 4wd	4.7	2008	8	auto(15)	4	9	12	e	suv
jeep	grand cherokee 4wd	4.7	2008	8	auto(15)	4	14	19	r	suv
jeep	grand cherokee 4wd	5.7	2008	8	auto(15)	4	13	18	r	suv
jeep	grand cherokee 4wd	6.1	2008	8	auto(15)	4	11	14	p	suv
land rover	range rover	4.0	1999	8	auto(14)	4	11	15	p	suv
land rover	range rover	4.2	2008	8	auto(s6)	4	12	18	r	suv
land rover	range rover	4.4	2008	8	auto(s6)	4	12	18	r	suv
land rover	range rover	4.6	1999	8	auto(14)	4	11	15	p	suv
lincoln	navigator 2wd	5.4	1999	8	auto(14)	r	11	17	r	suv
lincoln	navigator 2wd	5.4	1999	8	auto(14)	r	11	16	p	suv
lincoln	navigator 2wd	5.4	2008	8	auto(16)	r	12	18	r	suv
mercury	mountaineer 4wd	4.0	1999	6	auto(15)	4	14	17	r	suv
mercury	mountaineer 4wd	4.0	2008	6	auto(15)	4	13	19	r	suv
mercury	mountaineer 4wd	4.6	2008	8	auto(16)	4	13	19	r	suv
mercury	mountaineer 4wd	5.0	1999	8	auto(14)	4	13	17	r	suv
nissan	altima	2.4	1999	4	manual(m5)	f	21	29	r	compact
nissan	altima	2.4	1999	4	auto(14)	f	19	27	r	compact
nissan	altima	2.5	2008	4	auto(av)	f	23	31	r	midsize
nissan	altima	2.5	2008	4	manual(m6)	f	23	32	r	midsize
nissan	altima	3.5	2008	6	manual(m6)	f	19	27	p	midsize
nissan	altima	3.5	2008	6	auto(av)	f	19	26	p	midsize
nissan	maxima	3.0	1999	6	auto(14)	f	18	26	r	midsize
nissan	maxima	3.0	1999	6	manual(m5)	f	19	25	r	midsize
nissan	maxima	3.5	2008	6	auto(av)	f	19	25	p	midsize
nissan	pathfinder 4wd	3.3	1999	6	auto(14)	4	14	17	r	suv
nissan	pathfinder 4wd	3.3	1999	6	manual(m5)	4	15	17	r	suv
nissan	pathfinder 4wd	4.0	2008	6	auto(15)	4	14	20	p	suv
nissan	pathfinder 4wd	5.6	2008	8	auto(s5)	4	12	18	p	suv
pontiac	grand prix	3.1	1999	6	auto(14)	f	18	26	r	$\operatorname{midsize}$
pontiac	grand prix	3.8	1999	6	auto(14)	f	16	26	p	midsize
pontiac	grand prix	3.8	1999	6	auto(14)	f	17	27	r	midsize
pontiac	grand prix	3.8	2008	6	auto(14)	f	18	28	r	midsize
pontiac	grand prix	5.3	2008	8	auto(s4)	f	16	25	p	midsize
subaru	forester awd	2.5	1999	4	manual(m5)	4	18	25	r	suv
subaru	forester awd	2.5	1999	4	auto(14)	4	18	24	r	suv
subaru	forester awd	2.5	2008	4	manual(m5)	4	20	27	r	suv
subaru	forester awd	2.5	2008	4	manual(m5)	4	19	25	p	suv
subaru	forester awd	2.5	2008	4	auto(14)	4	20	26	\mathbf{r}	suv
subaru	forester awd	2.5	2008	4	auto(14)	4	18	23	p	suv
subaru	impreza awd	2.2	1999	4	auto(14)	4	21	26	\mathbf{r}	subcompact
subaru	impreza awd	2.2	1999	4	manual(m5)	4	19	26	\mathbf{r}	subcompact
subaru	impreza awd	2.5	1999	4	manual(m5)	4	19	26	r	subcompact

manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
subaru	impreza awd	2.5	1999	4	auto(l4)	4	19	26	r	subcompac
subaru	impreza awd	2.5	2008	4	auto(s4)	4	20	25	p	compact
subaru	impreza awd	2.5	2008	4	auto(s4)	4	20	27	r	compact
subaru	impreza awd	2.5	2008	4	manual(m5)	4	19	25	p	compact
subaru	impreza awd	2.5	2008	4	manual(m5)	4	20	27	r	compact
toyota	4runner 4wd	2.7	1999	4	manual(m5)	4	15	20	r	suv
toyota	4runner 4wd	2.7	1999	4	auto(14)	4	16	20	r	suv
toyota	4runner 4wd	3.4	1999	6	auto(14)	4	15	19	r	suv
toyota	4runner 4wd	3.4	1999	6	manual(m5)	4	15	17	r	suv
toyota	4runner 4wd	4.0	2008	6	auto(15)	4	16	20	r	suv
toyota	4runner 4wd	4.7	2008	8	auto(15)	4	14	17	r	suv
toyota	camry	2.2	1999	4	manual(m5)	f	21	29	r	midsize
toyota	camry	2.2	1999	4	auto(14)	f	21	27	r	midsize
toyota	camry	2.4	2008	4	manual(m5)	f	21	31	r	midsize
toyota	camry	2.4	2008	4	auto(15)	f	21	31	r	midsize
toyota	camry	3.0	1999	6	auto(14)	f	18	26	r	midsize
toyota	camry	3.0	1999	6	manual(m5)	f	18	26	r	midsize
toyota	camry	3.5	2008	6	auto(s6)	f	19	28	r	midsize
toyota	camry solara	2.2	1999	4	auto(14)	f	21	27	r	compact
toyota	camry solara	2.2	1999	4	manual(m5)	f	21	29	r	compact
toyota	camry solara	2.4	2008	4	manual(m5)	f	21	31	r	compact
toyota	camry solara	2.4	2008	4	auto(s5)	f	22	31	r	compact
toyota	camry solara	3.0	1999	6	auto(14)	f	18	26	r	compact
toyota	camry solara	3.0	1999	6	manual(m5)	f	18	26	r	compact
toyota	camry solara	3.3	2008	6	auto(s5)	f	18	27	r	compact
toyota	corolla	1.8	1999	4	auto(13)	f	24	30	r	compact
toyota	corolla	1.8	1999	4	auto(14)	f	24	33	r	compact
toyota	corolla	1.8	1999	4	manual(m5)	f	26	35	r	compact
toyota	corolla	1.8	2008	4	manual(m5)	f	28	37	r	compact
toyota	corolla	1.8	2008	4	auto(14)	f	26	35	r	compact
toyota	land cruiser wagon 4wd	4.7	1999	8	auto(14)	4	11	15	r	suv
toyota	land cruiser wagon 4wd	5.7	2008	8	auto(s6)	4	13	18	r	suv
toyota	toyota tacoma 4wd	2.7	1999	4	manual(m5)	4	15	20	r	pickup
toyota	toyota tacoma 4wd	2.7	1999	4	auto(14)	4	16	20	r	pickup
toyota	toyota tacoma 4wd	2.7	2008	4	manual(m5)	4	17	22	r	pickup
toyota	toyota tacoma 4wd	3.4	1999	6	manual(m5)	4	15	17	r	pickup
toyota	toyota tacoma 4wd	3.4	1999	6	auto(14)	4	15	19	r	pickup
toyota	toyota tacoma 4wd	4.0	2008	6	manual(m6)	4	15	18	r	pickup
toyota	toyota tacoma 4wd	4.0	2008	6	auto(15)	4	16	20	r	pickup
volkswagen	gti	2.0	1999	4	manual(m5)	f	21	29	r	compact
volkswagen	gti	2.0	1999	4	auto(l4)	f	19	26	r	compact
volkswagen	gti	2.0	2008	4	manual(m6)	f	21	29	p	compact
volkswagen	gti	2.0	2008	4	auto(s6)	f	22	29	p	compact
volkswagen	gti	2.8	1999	6	manual(m5)	f	17	24	r	compact
volkswagen	jetta	1.9	1999	4	manual(m5)	f	33	44	d	compact
volkswagen	jetta	2.0	1999	4	manual(m5)	f	21	29	r	compact

manufacturer	model	displ	year	cyl	trans	drv	cty	hwy	fl	class
volkswagen	jetta	2.0	1999	4	auto(l4)	f	19	26	r	compact
volkswagen	jetta	2.0	2008	4	auto(s6)	f	22	29	p	compact
volkswagen	jetta	2.0	2008	4	manual(m6)	\mathbf{f}	21	29	p	compact
volkswagen	jetta	2.5	2008	5	auto(s6)	f	21	29	r	compact
volkswagen	jetta	2.5	2008	5	manual(m5)	f	21	29	r	compact
volkswagen	jetta	2.8	1999	6	auto(l4)	\mathbf{f}	16	23	r	compact
volkswagen	jetta	2.8	1999	6	manual(m5)	\mathbf{f}	17	24	r	compact
volkswagen	new beetle	1.9	1999	4	manual(m5)	f	35	44	d	subcompact
volkswagen	new beetle	1.9	1999	4	auto(l4)	\mathbf{f}	29	41	d	subcompact
volkswagen	new beetle	2.0	1999	4	manual(m5)	f	21	29	r	subcompact
volkswagen	new beetle	2.0	1999	4	auto(l4)	f	19	26	r	subcompact
volkswagen	new beetle	2.5	2008	5	manual(m5)	f	20	28	r	subcompact
volkswagen	new beetle	2.5	2008	5	auto(s6)	f	20	29	r	subcompact
volkswagen	passat	1.8	1999	4	manual(m5)	f	21	29	p	midsize
volkswagen	passat	1.8	1999	4	auto(15)	f	18	29	p	midsize
volkswagen	passat	2.0	2008	4	auto(s6)	f	19	28	p	midsize
volkswagen	passat	2.0	2008	4	manual(m6)	\mathbf{f}	21	29	p	midsize
volkswagen	passat	2.8	1999	6	auto(l5)	f	16	26	p	midsize
volkswagen	passat	2.8	1999	6	manual(m5)	f	18	26	p	midsize
volkswagen	passat	3.6	2008	6	auto(s6)	f	17	26	p	midsize

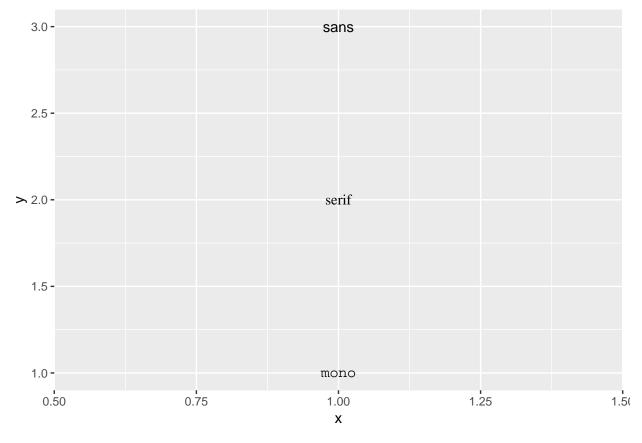
1 Intro 1

1.1 Sub 1

1.1.1 Section 1

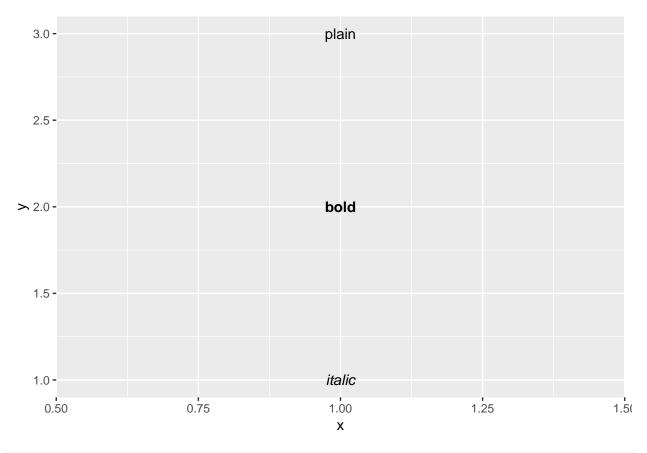
```
df <- data.frame(x = 1, y = 3:1, family = c("sans", "serif", "mono"))

ggplot(df, aes(x, y)) +
    geom_text(aes(label = family, family = family))</pre>
```



```
df <- data.frame(x = 1, y = 3:1, face = c("plain", "bold", "italic"))

ggplot(df, aes(x, y)) +
  geom_text(aes(label = face, fontface = face))</pre>
```



2 Intro 2

2.0.1 Exercises 3.2.1

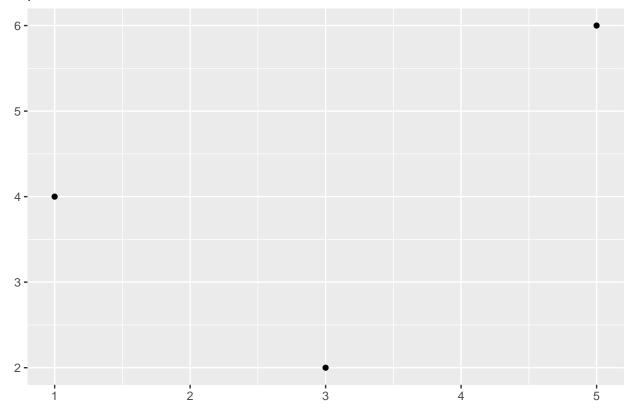
${\bf Question} \ {\bf 1}:$

What geoms would you use to draw each of the following named plots?

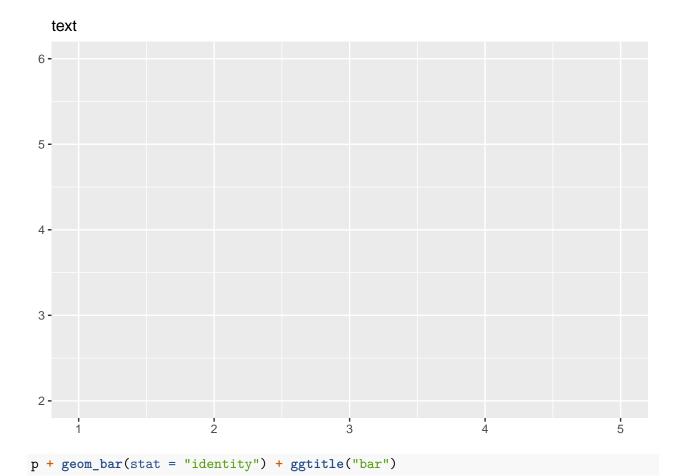
- Scatterplot
- Line Chart
- Histogram
- Bar chart
- Pie Chart

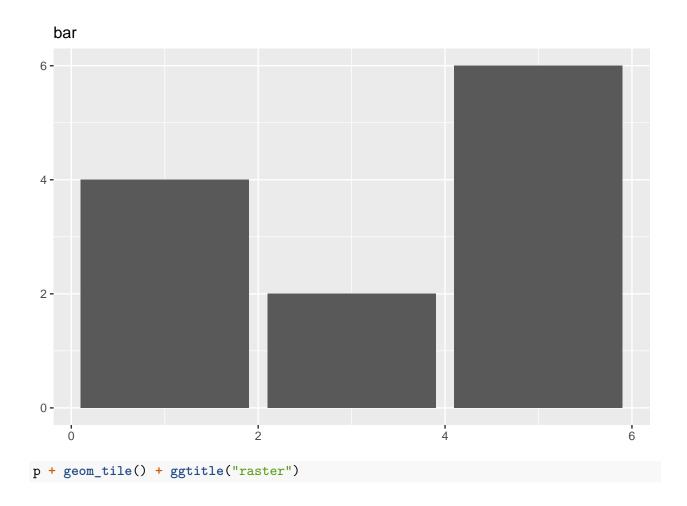
Answer:

point

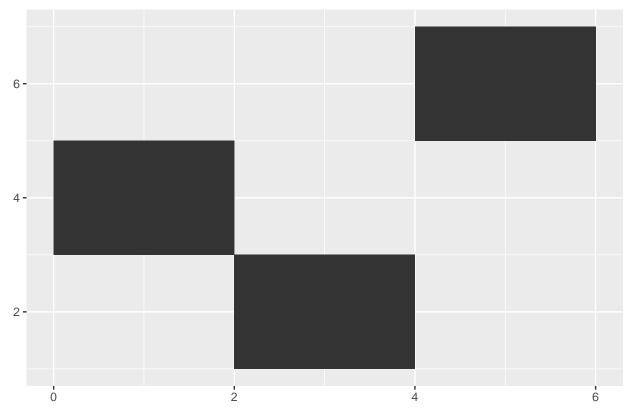


```
p + geom_text(label = "") + ggtitle("text")
```









p + geom_line() + ggtitle("line")

