```
> View(mtcars)
  mtcars_cat <- mtcars[c(2,8,9,10,11)]
library(tidyr)</pre>
>
  gather(mtcars_cat)
       key value
1
       суĺ
                  6
2
       cyl
                  6
3
       cy1
                 4
6
8
6
8
4
       cyl
5
6
7
       cyl
       cyl
       cyl
8
       cyl
                  4
9
                 cyl
10
       cy1
11
       cyl
12
       cyl
13
       cyl
14
       cyl
15
       cyl
16
       cyl
17
       cyl
18
                  4
       cyl
                  4
19
       cy1
20
                  4
       cyl
21
22
                 48888444868400
       cyl
       cy]
23
       cyl
24
25
       cyl
       cyl
26
27
28
       cy1
       cy1
       cy1
29
       cy1
30
       cyl
31
       cyl
32
       cyl
33
        ٧S
34
        vs
35
                 1
1
0
        vs
36
        ٧S
37
        ٧S
                 10
38
        vs
39
        vs
                  1
40
        ٧S
                 1
1
1
41
        ٧S
42
        ٧S
43
        ٧S
44
                  0
        vs
45
                  0
        vs
46
                  0
        vs
47
                  0
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48
                  0
        vs
49
                  Ŏ
        ٧S
50
                  1
        ٧S
                  1
51
        ٧S
52
                  1
        ٧S
53
                 1
        ٧S
54
        ٧S
                  0
55
                  0
        ٧S
56
57
        ٧S
                  0
                  0
        ٧S
58
                  1
        ٧S
```

59 60 61 62 63 64 65 66	VS VS VS VS VS	0 1 0 0
65 66 67 68 69	am am am am am	100011110000000000001111000000111111111
71 72 73 74	am am am am	0 0 0
75 76 77 78 79	am am am am am	0 0 0 0
80 81 82 83 84	am am am am am	0 0 1 1 1
85 86 87 88 89	am a	0 0 0 0
90 91 92 93 94	am am	1 1 1 1
667 677777777788888888899999999999999999	am am gear gear gear gear gear	1 1 4 4 4
102 103 104	gear gear gear gear gear	3 3 3 4
105 106 107 108 109	gear gear gear gear gear	4 4 3 3
110 111 112 113 114	gear gear gear gear gear	33444333333444333333
115 116 117 118 119	gear gear gear gear gear	4 4 3 3 3
120 121	gear gear	3

```
122 gear
123 gear
               5
5
5
5
124 gear
125 gear
126 gear
127 gear
              4
128 gear
129 carb
               4
130 carb
               4
              1
1
2
131 carb
132 carb
133 carb
134 carb
              1
135 carb
               4
              2
136 carb
137 carb
138 carb
139 carb
               4
               3
3
3
140 carb
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142 carb
               4
143 carb
144 carb
              4
145 carb
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2
1
146 carb
147 carb
148 carb
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2
2
149 carb
150 carb
151 carb
152 carb
              4
2
1
2
4
153 carb
154 carb
155 carb
156 carb
157 carb
              6
158 carb
159 carb
              8
              2
160 carb
> library(ggplot2)
> ggplot(gather(mtcars_cat), aes(value)) + geom_bar()+facet_wrap(~key, scales
> pairs(~gear+mpg+cyl+disp+hp,mtcars)
> pairs(~gear+drat+wt+qsec+vs,mtcars)
> pairs(~gear+am+carb,mtcars)
> #. Write a program to create a plot density by class variable.
> library(ggplot2)
> library(tidyr)
> ggplot(gather(mtcars), aes(value)) + geom_density(fill="cyan")+facet_wrap(~
key, scales = 'free_x')
```