### 3월 16일 숙제

#### CHOE

#### 2018.3.16

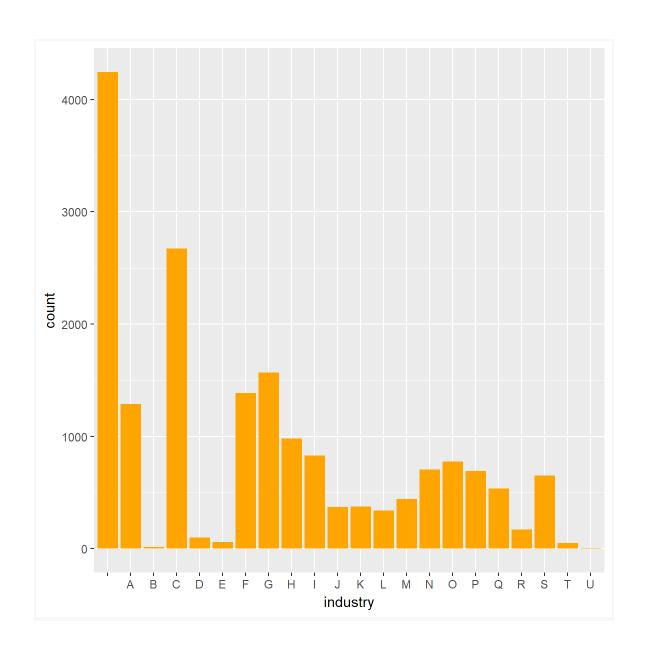
이전에 다운 받아서 만든 dtt를 사용해서 다음의 문제를 푸시오. html로 니팅해서 보내시오.

```
dtt <- read.csv("C:/2018-2/wo/dtt.csv", header=TRUE)
View(dtt)</pre>
```

#### **1** 문제 1

industry의 막대그래프를 그리시오.

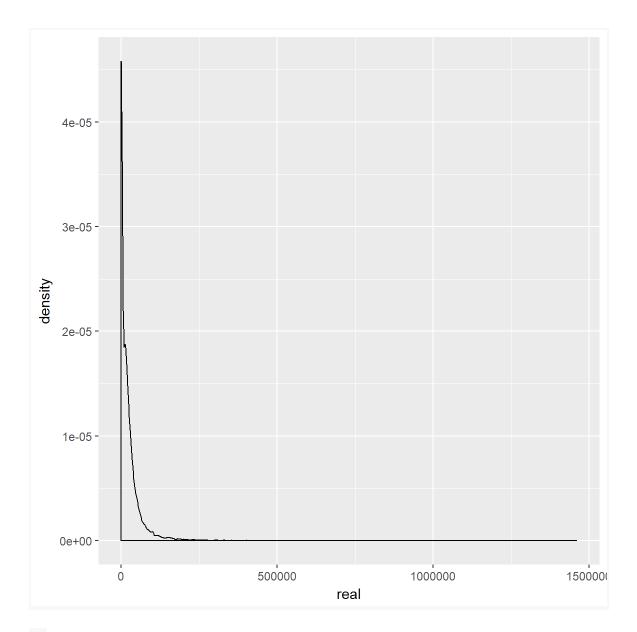
```
library(ggplot2)
ggplot(data = dtt) + geom_bar(aes(x=industry), stat="count",
fill="orange")
```



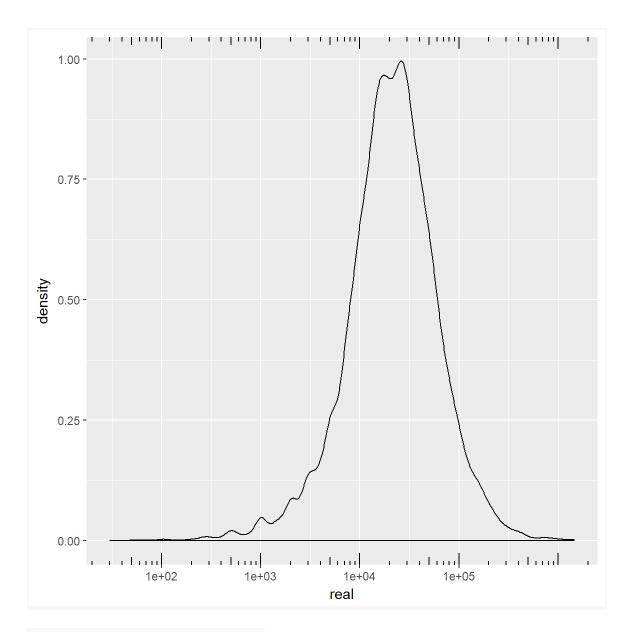
# **2** 문제 2

real의 밀도곡선을 그리시오.

#1
ggplot(dtt) + geom\_density(aes(x=real))



```
#2
ggplot(dtt) + geom_density(aes(x=real)) +
    scale_x_log10(breaks=c(100,1000,100000,100000)) +
    annotation_logticks(sides="bt")
## Warning: Transformation introduced infinite values in continuous
x-axis
## Warning: Removed 5603 rows containing non-finite values
(stat_density).
```

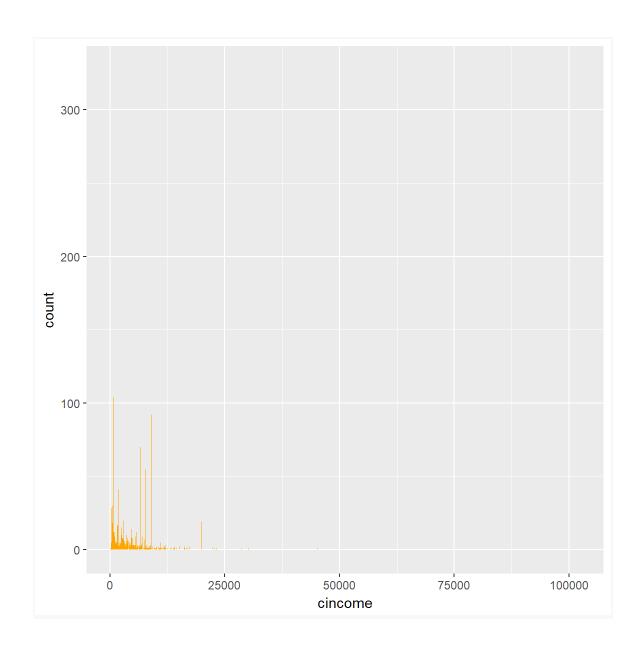


dtt\$logreal = log(dtt\$real)

# **3** 문제 3

cincome의 히스토그램을 그리시오.

```
library(ggplot2)
ggplot(dtt, aes(x=cincome))+geom_histogram(binwidth=5, fill="orange")
```



# **4** 문제 4

cincome의 0%~100%까지 1% 단위로 분위수(경상소득의 분포)를 구하시오.

q1=quan	tile(dt	t\$cincome,	probs = s	seq(0,1, by=	=0.01))	
q1						
##	0%	1%	2%	3%	4%	5%
6%						
##	0.00	274.88	362.00	442.00	482.00	540.00
582.00						
##	7%	8%	9%	10%	11%	12%

13%						
##	602.00	648.00	702.00	740.00	800.00	844.00
904.	00					
##	14%	15%	16%	17%	18%	19%
20%						
##	972.00	1040.00	1104.52	1189.24	1220.00	1307.36
1388		0.00	0.2.9	0.4.9	0.50	0.69
## 27%	21%	22%	23%	24%	25%	26%
##	1442.00	1515.68	1596.00	1683.28	1800.00	1804.00
1920		1313.00	1330.00	1003.20	1000.00	1004.00
##	28%	29%	30%	31%	32%	33%
34%						
##	2000.00	2050.00	2160.00	2240.00	2328.08	2400.00
2413	.00					
##	35%	36%	37%	38%	39%	40%
41%						
##	2500.00	2580.00	2650.00	2760.00	2844.00	2955.20
3000 ##	42%	43%	44%	45%	46%	47%
## 48%	426	45%	446	45%	40%	4/6
##	3002.00	3120.00	3215.68	3300.00	3400.00	3500.00
3600		0120100	3223733		0100.00	
##	49%	50%	51%	52%	53%	54%
55%						
##	3600.00	3700.00	3800.00	3900.00	4000.00	4020.00
4140						
##	56%	57%	58%	59%	60%	61%
62% ##	4200.00	4300.00	4406.52	4500.00	4600.00	4703.84
## 4800		4300.00	4406.52	4500.00	4600.00	4/03.04
##	63%	64%	65%	66%	67%	68%
69%						
##	4912.36	5000.00	5040.00	5160.00	5281.44	5400.00
5518	.72					
##	70%	71%	72%	73%	74%	75%
76%						
##	5664.00	5811.20	6000.00	6000.00	6155.56	6300.00
6500		70%	70%	0.0%	019.	0.0%
## 83%	77%	78%	79%	80%	81%	82%
##	6600.00	6820.32	7000.00	7160.00	7320.00	7500.00
7790		0020.32	,000.00	7100.00	7320.00	7300.00
##	84%	85%	86%	87%	88%	89%
90%						
##	8000.00	8140.00	8400.00	8629.64	8980.00	9207.24
9600						
##	91%	92%	93%	94%	95%	96%

```
97%
## 10000.00 10300.00 10800.00 11500.00 12160.00 13000.00
14223.36
## 98% 99% 100%
## 15960.00 20000.00 102400.00
```

#### **5** 문제 5

문제 5의 소득분포를 적절하게 막대그래프로 그려 보시오.

barplot(q1)

