

HW4_Madhu

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```
library(tigerstats)

## Loading required package: abd
## Loading required package: nlme
## Loading required package: lattice
## Loading required package: grid
## Loading required package: mosaic

## Registered S3 method overwritten by 'mosaic':
##   method                                from
##   fortify.SpatialPolygonsDataFrame ggplot2

##
## The 'mosaic' package masks several functions from core packages in order
## to add
## additional features. The original behavior of these functions should not
## be affected by this.

##
## Attaching package: 'mosaic'

## The following objects are masked from 'package:dplyr':
##
##   count, do, tally

## The following object is masked from 'package:Matrix':
##
##   mean

## The following object is masked from 'package:ggplot2':
##
##   stat

## The following objects are masked from 'package:stats':
##
##   binom.test, cor, cor.test, cov, fivenum, IQR, median, prop.test,
##   quantile, sd, t.test, var
```

```
## The following objects are masked from 'package:base':  
##  
##      max, mean, min, prod, range, sample, sum  
  
## Welcome to tigerstats!  
## To learn more about this package, consult its website:  
## http://homerhanumat.github.io/tigerstats
```

Part ONE: Clarifying the concept

1. Sampling distribution of the sample mean

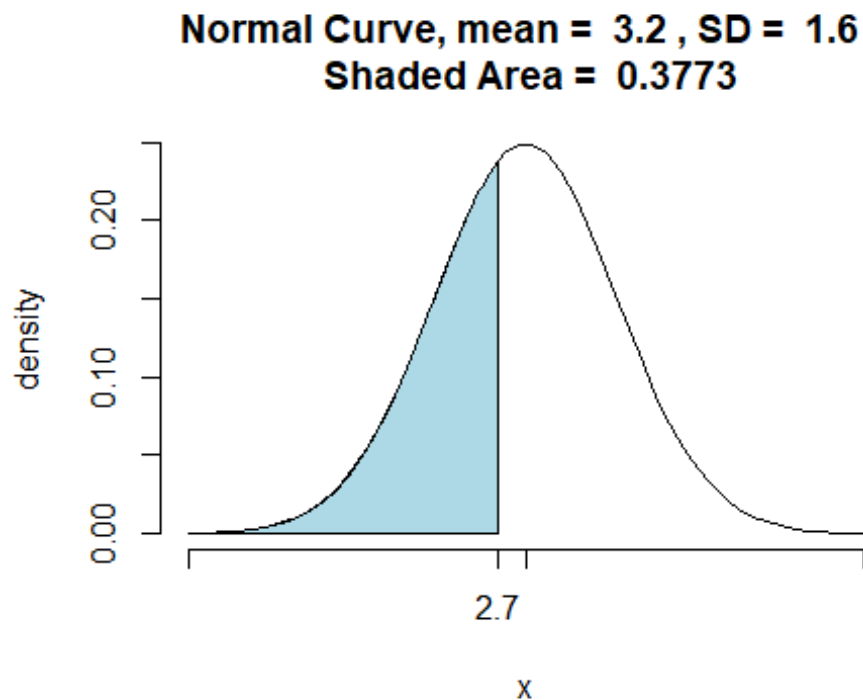
Task

The amount of time that a drive-through bank teller spends on a customer is a random variable with a mean $\mu=3.2$ minutes and a standard deviation $\sigma=1.6$ minutes. If a random sample of 64 customers is observed, find the probability that their mean time at the teller's window is

a) at most 2.7 minutes

Answer:

```
pnormGC(2.7, region="below", mean=3.2, sd=1.6, graph=TRUE)
```



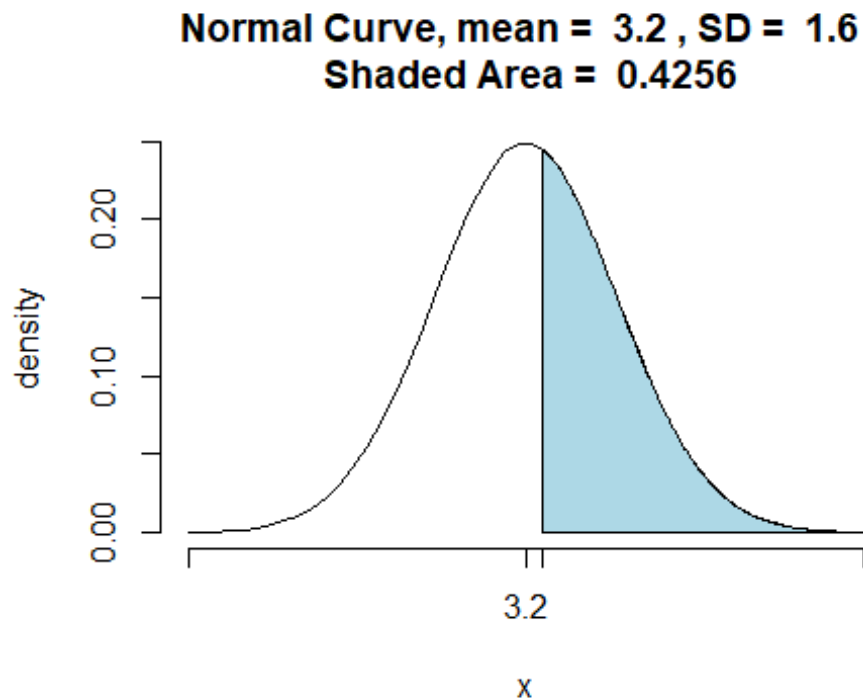
```
## [1] 0.3773303
```

The probability that their mean time at the teller's window for 64 customers is at most 2.7 minutes is likely to happen around 30%.

b) more than 3.5 minutes

Answer:

```
pnormGC(3.5, region="above", mean=3.2, sd=1.6, graph=TRUE)
```



```
## [1] 0.4256343
```

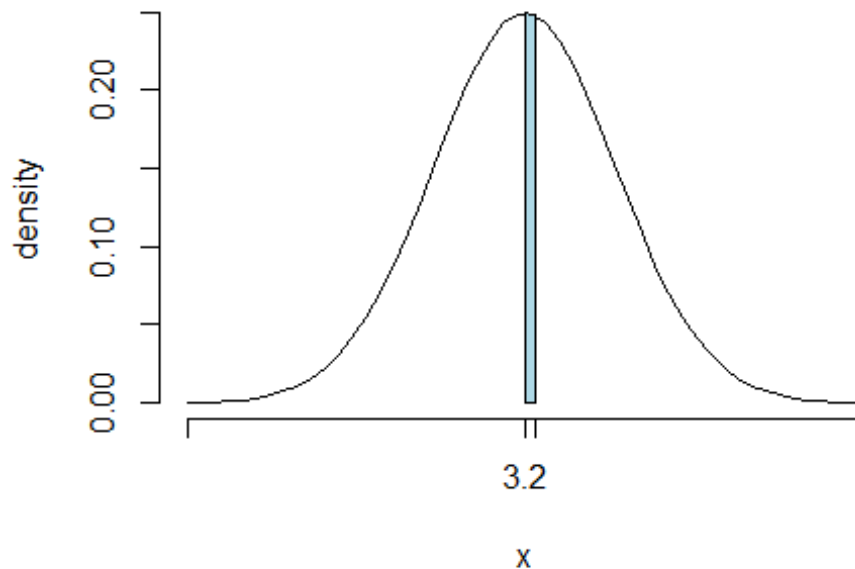
The probability that their mean time at the teller's window for 64 customers is more than 3.5 minutes have a chance of 50%.

c) at least 3.2 minutes but less than 3.4 minutes

Answer:

```
pnormGC(c(3.2, 3.4), region="between", mean=3.2, sd=1.6, graph=TRUE)
```

Normal Curve, mean = 3.2 , SD = 1.6
Shaded Area = 0.0497



```
## [1] 0.04973822
```

The probability that their mean time at the teller's window for 64 customers is at least 3.2 minutes but less than 3.4 minutes have a chance of 50%.

2. A follow-up on CLT example from the lecture

Example reminder:

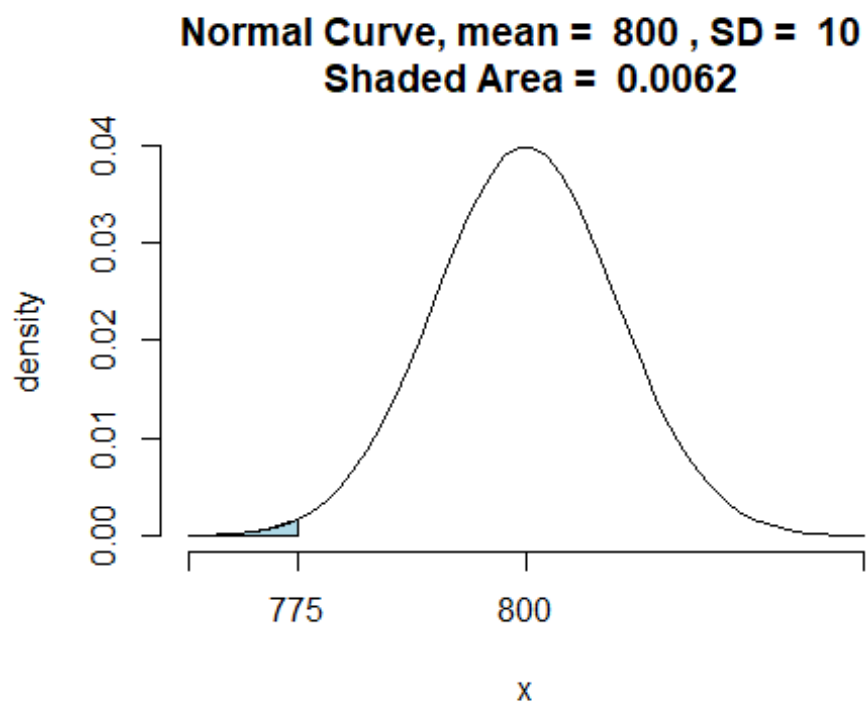
An electrical firm manufactures light bulbs that have a length of life that is approximately normally distributed, with mean equal to 800 hours and a standard deviation of 40 hours. In class, we computed the probability that a random sample of 16 bulbs will have an average life of less than 775 hours.

Task

Consider the situation described in the example above. Do these results prompt you to question the premise that $\mu=800$ hours? Give a probabilistic result that indicates how rare an event $\bar{X}_1 \leq 775$ is when $\mu=800$. On the other hand, how rare would it be if μ truly were, say, 760 hours?

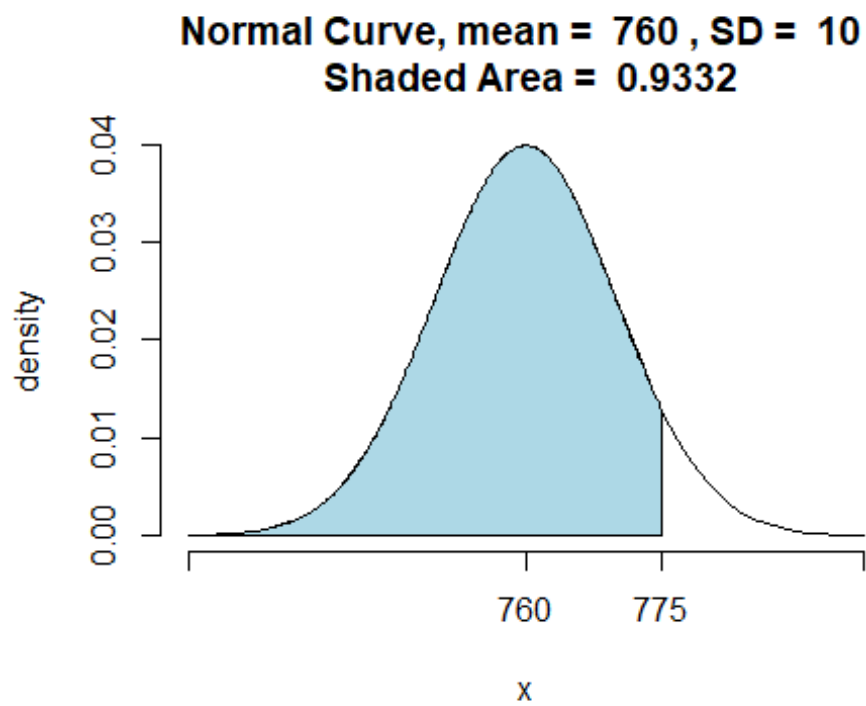
Answer:

```
pnormGC(775, region="below", mean=800, sd=10, graph=TRUE)
```



```
## [1] 0.006209665
```

```
pnormGC(775, region="below", mean=760, sd=10, graph=TRUE)
```



```
## [1] 0.9331928
```

By looking at both the graphs, we can say that $X \leq 775$ is too rare event when $\mu = 800$ and on the other hand if $\mu = 760$ then the $X \leq 775$ is more likely to happen.

3. Sampling distribution of difference of means

Task

The television picture tubes of manufacturer A have a mean lifetime of 6.5 years and a standard deviation of 0.9 year, while those of manufacturer B have a mean lifetime of 6.0 years and a standard deviation of 0.8 year.

What is the probability that a random sample of 36 tubes from manufacturer A will have a mean lifetime that is at least 1 year more than the mean lifetime of a sample of 49 tubes from manufacturer B?

Answer:

The distribution of the differences between means is the sampling distribution of the difference between means.

$\bar{X}_1 - \bar{X}_2$, is approximately normally distributed with:

$$\mu_{\bar{X}_1 - \bar{X}_2} = \mu_1 - \mu_2, \sigma^2(\bar{X}_1 - \bar{X}_2) = ((\sigma_1^2)/N_1 + ((\sigma_2^2)/N_2))$$

$$Z = [(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)] / \text{sq.rt}(((\sigma_1^2)/N_1 + ((\sigma_2^2)/N_2))$$

The probability that we compute is as following -

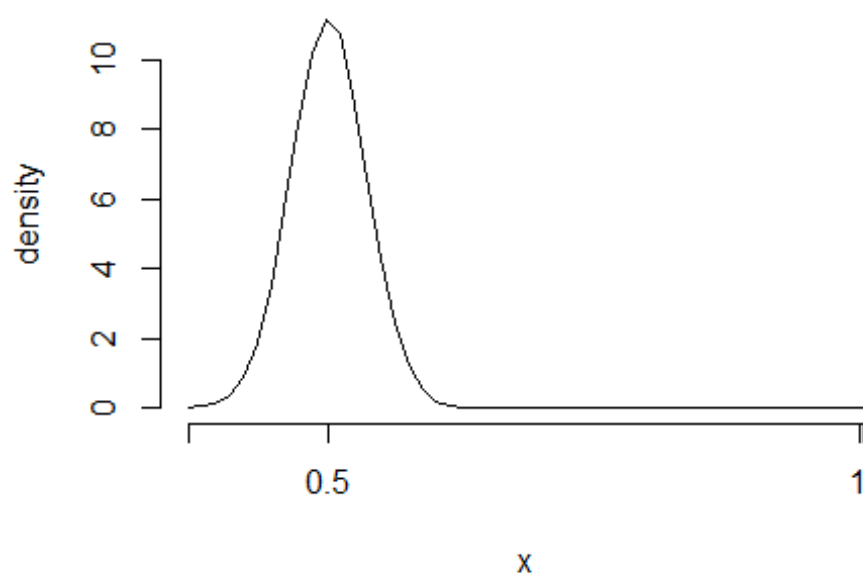
$$\mu_1 - \mu_2 = 6.5 - 6.0 = 0.5$$

$$\sigma^2(\bar{X}_1 - \bar{X}_2) = ((0.9^2)/36) + ((0.8^2)/49) = 0.03556$$

$$Z = (1 - 0.5) / \text{sq.rt}(0.03556) = 2.65$$

```
pnormGC(1, region="above", mean=0.5, sd=0.0356, graph=TRUE)
```

Normal Curve, mean = 0.5 , SD = 0.04
Shaded Area = 0



```
## [1] 4.136698e-45
```

In the above graph it is showing '0' shaded area because there is a small probability of random sample of 36 tubes manufacturer A will have a mean lifetime that is at least 1 year more than the mean lifetime of a sample of 49 tubes from manufacturer B.

4. A follow-up on Case Study 2 from the lecture

Example reminder:

Two independent experiments are run in which two different types of paint are compared. 18 specimens are painted using type A, and the drying time, in hours, is recorded for each. The same is done with type B. The population standard deviations are both known to be 1.0. We computed the probability that the difference in average paint drying times was larger than some threshold.

Task

Suppose 18 specimens were used for each type of paint in an experiment and $\bar{X}_1 - \bar{X}_2$, the actual difference in mean drying time, turned out to be 1.0.

a. Does this seem to be a reasonable result if the two population mean drying times truly are equal? Make use of the result in the solution to Case Study 2.

Answer:

The null hypothesis indicates that the population means are equal, $\mu_1 = \mu_2$ or $\mu_1 - \mu_2 = 0$. The corresponding null hypothesis is that there is no difference in the population means $\mu_1 - \mu_2 = 0$. And actual difference in mean drying time is 1.0. so the so the two population mean drying times can not be equal.

b. If someone did the experiment 10,000 times under the condition that $\mu_A = \mu_B$, in how many of those 10,000 experiments would there be a difference $X_A - X_B$ that was as large as (or larger than) 1.0?

Answer:

We can calculate the probability as:

$$Z = [(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)] / \text{sq.rt}[(\sigma_1^2)/N_1 + (\sigma_2^2)/N_2] = (1-0)/\text{sq.rt}(1/9) = 0.0013$$

$$P(X_A - X_B > 1) = P(Z > 3) = 0.0013$$

And if we do this experiment 10,000 times - $10,000 * 0.0013 = 13$. 13 times more difference will be there in $X_A - X_B$.

Part TWO: working with the data

Task

For the following exercises, work with the `bank_marketing_training` data set. Use either Python or R to solve each problem; though you are strongly recommended to try and make sure you can run both.

```
dataset <- read.csv("https://campuspro-uploads.s3-us-west-
2.amazonaws.com/a9d789c2-6b5e-4020-a941-69984947f1ee/d2c0b7ab-df96-4891-b40f-
392d348c30dc/bank_marketing_training")
bank_train <- dataset
head(bank_train)
```

	age	job	marital	education	default	housing	loan	contact
month								
## 1	56	housemaid	married	basic.4y	no	no	no	telephone
may								
## 2	57	services	married	high.school	unknown	no	no	telephone
may								
## 3	41	blue-collar	married	unknown	unknown	no	no	telephone
may								
## 4	25	services	single	high.school	no	yes	no	telephone
may								
## 5	29	blue-collar	single	high.school	no	no	yes	telephone
may								
## 6	57	housemaid	divorced	basic.4y	no	yes	no	telephone
may								
##	day_of_week	duration	campaign	days_since_previous	previous			
	previous_outcome							
## 1	mon	261	1		999		0	
	nonexistent							
## 2	mon	149	1		999		0	
	nonexistent							
## 3	mon	217	1		999		0	
	nonexistent							
## 4	mon	222	1		999		0	
	nonexistent							
## 5	mon	137	1		999		0	
	nonexistent							
## 6	mon	293	1		999		0	
	nonexistent							
##	emp.var.rate	cons.price.idx	cons.conf.idx	euribor3m	nr.employed	response		
## 1	1.1	93.994	-36.4	4.857	5191	no		
## 2	1.1	93.994	-36.4	4.857	5191	no		
## 3	1.1	93.994	-36.4	4.857	5191	no		
## 4	1.1	93.994	-36.4	4.857	5191	no		
## 5	1.1	93.994	-36.4	4.857	5191	no		
## 6	1.1	93.994	-36.4	4.857	5191	no		

1) Derive an index field and add it to the data set.

Answer:

```
n <- dim(bank_train)[1]
n
```

```
## [1] 26874
```

```
bank_train$Index <- c(1:n)
```

```
bank_train$Index
```

##	[1]	1	2	3	4	5	6	7	8	9	10	11
12												
##	[13]	13	14	15	16	17	18	19	20	21	22	23
24												
##	[25]	25	26	27	28	29	30	31	32	33	34	35
36												
##	[37]	37	38	39	40	41	42	43	44	45	46	47
48												
##	[49]	49	50	51	52	53	54	55	56	57	58	59
60												
##	[61]	61	62	63	64	65	66	67	68	69	70	71
72												
##	[73]	73	74	75	76	77	78	79	80	81	82	83
84												
##	[85]	85	86	87	88	89	90	91	92	93	94	95
96												
##	[97]	97	98	99	100	101	102	103	104	105	106	107
108												
##	[109]	109	110	111	112	113	114	115	116	117	118	119
120												
##	[121]	121	122	123	124	125	126	127	128	129	130	131
132												
##	[133]	133	134	135	136	137	138	139	140	141	142	143
144												
##	[145]	145	146	147	148	149	150	151	152	153	154	155
156												
##	[157]	157	158	159	160	161	162	163	164	165	166	167
168												
##	[169]	169	170	171	172	173	174	175	176	177	178	179
180												
##	[181]	181	182	183	184	185	186	187	188	189	190	191
192												
##	[193]	193	194	195	196	197	198	199	200	201	202	203
204												
##	[205]	205	206	207	208	209	210	211	212	213	214	215
216												
##	[217]	217	218	219	220	221	222	223	224	225	226	227
228												
##	[229]	229	230	231	232	233	234	235	236	237	238	239
240												
##	[241]	241	242	243	244	245	246	247	248	249	250	251
252												
##	[253]	253	254	255	256	257	258	259	260	261	262	263
264												
##	[265]	265	266	267	268	269	270	271	272	273	274	275

276												
##	[277]	277	278	279	280	281	282	283	284	285	286	287
288												
##	[289]	289	290	291	292	293	294	295	296	297	298	299
300												
##	[301]	301	302	303	304	305	306	307	308	309	310	311
312												
##	[313]	313	314	315	316	317	318	319	320	321	322	323
324												
##	[325]	325	326	327	328	329	330	331	332	333	334	335
336												
##	[337]	337	338	339	340	341	342	343	344	345	346	347
348												
##	[349]	349	350	351	352	353	354	355	356	357	358	359
360												
##	[361]	361	362	363	364	365	366	367	368	369	370	371
372												
##	[373]	373	374	375	376	377	378	379	380	381	382	383
384												
##	[385]	385	386	387	388	389	390	391	392	393	394	395
396												
##	[397]	397	398	399	400	401	402	403	404	405	406	407
408												
##	[409]	409	410	411	412	413	414	415	416	417	418	419
420												
##	[421]	421	422	423	424	425	426	427	428	429	430	431
432												
##	[433]	433	434	435	436	437	438	439	440	441	442	443
444												
##	[445]	445	446	447	448	449	450	451	452	453	454	455
456												
##	[457]	457	458	459	460	461	462	463	464	465	466	467
468												
##	[469]	469	470	471	472	473	474	475	476	477	478	479
480												
##	[481]	481	482	483	484	485	486	487	488	489	490	491
492												
##	[493]	493	494	495	496	497	498	499	500	501	502	503
504												
##	[505]	505	506	507	508	509	510	511	512	513	514	515
516												
##	[517]	517	518	519	520	521	522	523	524	525	526	527
528												
##	[529]	529	530	531	532	533	534	535	536	537	538	539
540												
##	[541]	541	542	543	544	545	546	547	548	549	550	551
552												
##	[553]	553	554	555	556	557	558	559	560	561	562	563
564												
##	[565]	565	566	567	568	569	570	571	572	573	574	575

576												
##	[577]	577	578	579	580	581	582	583	584	585	586	587
588												
##	[589]	589	590	591	592	593	594	595	596	597	598	599
600												
##	[601]	601	602	603	604	605	606	607	608	609	610	611
612												
##	[613]	613	614	615	616	617	618	619	620	621	622	623
624												
##	[625]	625	626	627	628	629	630	631	632	633	634	635
636												
##	[637]	637	638	639	640	641	642	643	644	645	646	647
648												
##	[649]	649	650	651	652	653	654	655	656	657	658	659
660												
##	[661]	661	662	663	664	665	666	667	668	669	670	671
672												
##	[673]	673	674	675	676	677	678	679	680	681	682	683
684												
##	[685]	685	686	687	688	689	690	691	692	693	694	695
696												
##	[697]	697	698	699	700	701	702	703	704	705	706	707
708												
##	[709]	709	710	711	712	713	714	715	716	717	718	719
720												
##	[721]	721	722	723	724	725	726	727	728	729	730	731
732												
##	[733]	733	734	735	736	737	738	739	740	741	742	743
744												
##	[745]	745	746	747	748	749	750	751	752	753	754	755
756												
##	[757]	757	758	759	760	761	762	763	764	765	766	767
768												
##	[769]	769	770	771	772	773	774	775	776	777	778	779
780												
##	[781]	781	782	783	784	785	786	787	788	789	790	791
792												
##	[793]	793	794	795	796	797	798	799	800	801	802	803
804												
##	[805]	805	806	807	808	809	810	811	812	813	814	815
816												
##	[817]	817	818	819	820	821	822	823	824	825	826	827
828												
##	[829]	829	830	831	832	833	834	835	836	837	838	839
840												
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852												
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864												
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876												
##	[877]	877	878	879	880	881	882	883	884	885	886	887
888												
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900												
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912												
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924												
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936												
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948												
##	[949]	949	950	951	952	953	954	955	956	957	958	959
960												
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972												
##	[973]	973	974	975	976	977	978	979	980	981	982	983
984												
##	[985]	985	986	987	988	989	990	991	992	993	994	995
996												
##	[997]	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007
1008												
##	[1009]	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019
1020												
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1032												
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1044												
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1056												
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1068												
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1080												
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1092												
##	[1093]	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103
1104												
##	[1105]	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115
1116												
##	[1117]	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127
1128												
##	[1129]	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139
1140												
##	[1141]	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151
1152												
##	[1153]	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163
1164												
##	[1165]	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175

1176												
##	[1177]	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187
1188												
##	[1189]	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199
1200												
##	[1201]	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211
1212												
##	[1213]	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223
1224												
##	[1225]	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235
1236												
##	[1237]	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247
1248												
##	[1249]	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259
1260												
##	[1261]	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271
1272												
##	[1273]	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283
1284												
##	[1285]	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295
1296												
##	[1297]	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307
1308												
##	[1309]	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319
1320												
##	[1321]	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331
1332												
##	[1333]	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343
1344												
##	[1345]	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355
1356												
##	[1357]	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367
1368												
##	[1369]	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379
1380												
##	[1381]	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391
1392												
##	[1393]	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403
1404												
##	[1405]	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415
1416												
##	[1417]	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427
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## [26869] 26869 26870 26871 26872 26873 26874

```

2) For the `days_since_previous` field, change the field value 999 to the appropriate code for missing values.

Answer:

```

bank_train$days_since_previous <- ifelse(test =
bank_train$days_since_previous == 999,
yes = NA, no = bank_train$days_since_previous)
head(bank_train$days_since_previous)

## [1] NA NA NA NA NA NA

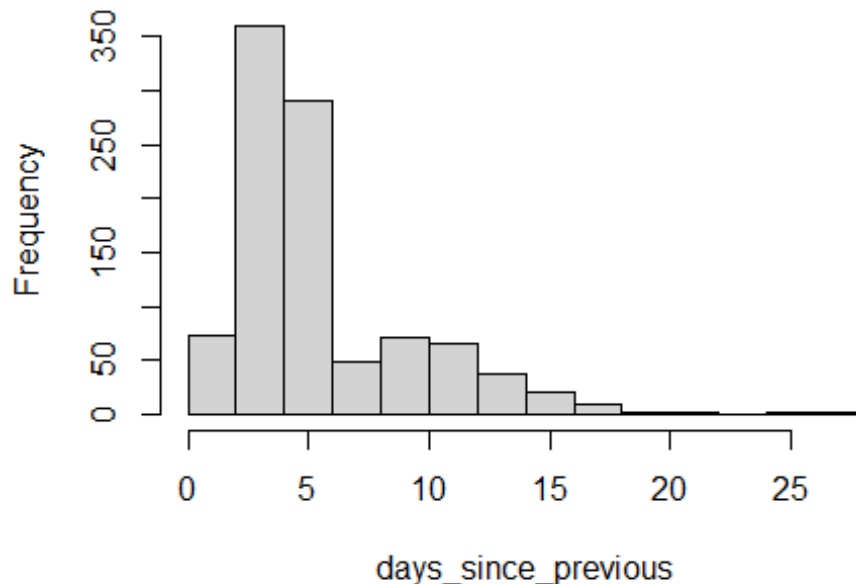
bank_train$days_since_previous[1:20]

## [1] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA

```

```
hist(bank_train$days_since_previous, xlab = "days_since_previous",
main = "Histogram of days_since_previous - Missing Values replaced by NA")
```

gram of days_since_previous - Missing Values repla



3)For the education field, reexpress the field values as the numeric values shown in Table 3.1. located in "Reexpression as categorical data" worksheet linked above.

Answer:

```
install.packages("plyr",repos ="http://cran.us.r-project.org");

## Installing package into 'C:/Users/madhu/OneDrive/Documents/R/win-
library/4.0'
## (as 'lib' is unspecified)

## Warning: unable to access index for repository http://cran.us.r-
project.org/src/contrib:
## scheme not supported in URL 'http://cran.us.r-
project.org/src/contrib/PACKAGES'

## Warning: package 'plyr' is not available for this version of R
##
## A version of this package for your version of R might be available
elsewhere,
## see the ideas at
## https://cran.r-project.org/doc/manuals/r-patched/R-admin.html#Installing-
packages
```

```

## Warning: unable to access index for repository http://cran.us.r-
project.org/bin/windows/contrib/4.0:
##   scheme not supported in URL 'http://cran.us.r-
project.org/bin/windows/contrib/4.0/PACKAGES'

library(plyr)

## -----
## -----

## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first,
then dplyr:
## library(plyr); library(dplyr)

## -----
## -----

##
## Attaching package: 'plyr'

## The following object is masked from 'package:mosaic':
##
##   count

## The following objects are masked from 'package:dplyr':
##
##   arrange, count, desc, failwith, id, mutate, rename, summarise,
##   summarize

edu.num <- revalue(x = bank_train$education, replace=c("illiterate" = 0,
"basic.4y" = 4,
"basic.6y" = 6, "basic.9y" = 9, "high.school" = 12, "professional.course" =
12,
"university.degree" = 16, "unknown" = NA))

bank_train$education_numeric <- as.numeric(levels(edu.num))[edu.num]

edu.num

##   [1] "4"  "12" NA   "12" "12" "4"  "6"  "9"  "12" "12" "12" "12" "16"
NA
##   [15] NA   "4"  "4"  "12" "9"  "16" "16" "12" "12" "16" "9"  "16" "12"
"12"
##   [29] "12" "16" "16" "6"  "6"  "12" "16" "9"  NA   "9"  "4"  "6"  "16"
"16"
##   [43] "4"  "16" "12" NA   "4"  "4"  "16" "16" "12" "9"  "12" "16" "9"
"6"
##   [57] "12" "16" "6"  "4"  NA   "16" "16" "12" "12" NA   "16" "4"  "12"
"16"
##   [71] "12" "16" NA   NA   "12" "12" "12" "16" "6"  "4"  "6"  "12" "16"
"4"

```

## "9"	[85]	"12"	"4"	"4"	"12"	"9"	NA	NA	"9"	NA	"12"	"12"	"9"	"9"
## "6"	[99]	"12"	"12"	NA	"16"	"12"	"16"	"16"	"9"	"12"	"6"	"12"	"9"	"12"
## "9"	[113]	"16"	"16"	"6"	"16"	"9"	"16"	"9"	"4"	"9"	"6"	"12"	"12"	NA
## "16"	[127]	"16"	"16"	"12"	"16"	"9"	NA	"4"	NA	"12"	NA	"4"	"9"	"16"
## "12"	[141]	"12"	"12"	"4"	"12"	"16"	"12"	"4"	"12"	"16"	NA	"12"	"12"	"12"
## "12"	[155]	"4"	NA	"12"	"9"	"9"	NA	"12"	"6"	"16"	"6"	"16"	"16"	"16"
## "4"	[169]	"16"	"9"	"4"	"4"	"9"	"9"	"6"	"9"	NA	"12"	"16"	"12"	"12"
## "16"	[183]	"12"	"12"	NA	"12"	"12"	NA	"12"	"6"	NA	"4"	"16"	"16"	"12"
## "12"	[197]	"9"	"6"	"9"	"12"	"9"	"12"	"12"	"16"	"12"	"12"	"9"	"16"	"12"
## "12"	[211]	"12"	"16"	"12"	"12"	"4"	"12"	"12"	"16"	"4"	"16"	"16"	"12"	"4"
## "4"	[225]	"12"	"16"	"16"	"12"	"9"	"9"	"12"	NA	"6"	"16"	"9"	"9"	NA
## "4"	[239]	"6"	"12"	"16"	"12"	"12"	"9"	"12"	"16"	"16"	"6"	"12"	"9"	"12"
## "16"	[253]	"9"	"4"	"4"	"9"	"16"	"4"	"4"	"4"	"9"	"6"	"12"	NA	"12"
## "4"	[267]	"9"	"16"	"12"	NA	"12"	"16"	NA	"12"	"16"	"9"	"16"	"12"	"4"
## "6"	[281]	"4"	"6"	"9"	"12"	"6"	"16"	"12"	"12"	"9"	"4"	"16"	NA	"12"
## NA	[295]	"16"	"16"	"12"	"16"	"9"	"9"	"12"	"12"	"12"	"9"	"9"	"12"	"16"
## "12"	[309]	"16"	"12"	"4"	"12"	"9"	NA	"4"	"4"	NA	"9"	"6"	"12"	"12"
## "4"	[323]	"6"	"9"	"12"	"12"	"4"	"6"	"16"	"9"	"12"	"16"	"12"	"12"	"16"
## "12"	[337]	"16"	"9"	"16"	"4"	"12"	"4"	"4"	"6"	"4"	"16"	"6"	"16"	"12"
## "6"	[351]	"9"	"4"	"12"	"12"	"12"	"16"	"16"	NA	"12"	NA	"16"	"16"	"4"
## "12"	[365]	"12"	"12"	"16"	"12"	"9"	"12"	"16"	"9"	"12"	"12"	"9"	"12"	"6"
## "4"	[379]	"16"	"6"	"12"	"12"	"9"	"16"	"12"	"12"	NA	NA	"12"	"16"	"16"
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## "12"	[407]	"12"	"4"	"16"	"16"	NA	"16"	"12"	"16"	"12"	"12"	"12"	"12"	"16"
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## "16"	[435]	"6"	"9"	"16"	"4"	"12"	"16"	"9"	"16"	"16"	"12"	"12"	"6"	"4"
## "16"	[449]	"4"	"4"	"9"	"16"	"12"	NA	"12"	"12"	"4"	"16"	"4"	"4"	"12"
## "12"	[463]	"4"	"4"	"12"	"6"	"4"	"12"	"16"	"12"	"16"	"9"	"16"	"4"	"9"
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## "12"	[827]	"12"	"12"	"6"	"4"	"12"	"12"	"9"	"16"	"16"	"12"	"16"	"12"	NA
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## NA	[855]	"12"	"16"	"6"	"9"	"12"	"4"	"9"	"12"	"12"	"4"	"16"	"12"	"9"
## "12"	[869]	"4"	"6"	"9"	"6"	"12"	"6"	"6"	"6"	"12"	"9"	"12"	"12"	"12"
## "16"	[883]	"12"	"12"	"4"	"12"	"4"	"12"	"6"	"12"	"6"	"12"	"4"	"6"	"6"
## "12"	[897]	"6"	"4"	"12"	"12"	"12"	"16"	"16"	"4"	"12"	"4"	"16"	"9"	"6"
## "9"	[911]	"12"	"12"	"9"	"12"	"4"	"16"	"4"	"9"	"4"	"6"	"12"	"12"	"16"
## "12"	[925]	"12"	"4"	"9"	"16"	"12"	"16"	"4"	"9"	"9"	"6"	"9"	"12"	"16"
## "6"	[939]	"16"	"4"	"12"	"9"	"9"	"4"	"9"	"16"	NA	"9"	"12"	"16"	"6"
## "9"	[953]	"12"	"12"	"4"	"12"	"12"	"12"	"12"	"12"	"9"	"12"	"6"	"12"	"4"
## "9"	[967]	"9"	"12"	"9"	"12"	"9"	"12"	"9"	"4"	"16"	"12"	"16"	"12"	"12"
## "16"	[981]	"12"	"16"	"12"	"16"	"6"	"16"	"16"	"16"	"12"	"12"	"12"	"12"	"12"
## "12"	[995]	"4"	"12"	"16"	"12"	"16"	"16"	"9"	"16"	"12"	"16"	"12"	"6"	"6"
## "16"	[1009]	"6"	"16"	"12"	"6"	"12"	"12"	"16"	"12"	"16"	"9"	"12"	"12"	"4"
## "9"	[1023]	"12"	"9"	"12"	"12"	"12"	"16"	"12"	"12"	"12"	"12"	"12"	"12"	"12"
## "9"	[1037]	"4"	"9"	"4"	"12"	"12"	"9"	"12"	"12"	"9"	"9"	"16"	"16"	"9"
## "16"	[1051]	"12"	"12"	"9"	"12"	"12"	"9"	"4"	"12"	"6"	"16"	"16"	"16"	"9"
## "12"	[1065]	"16"	"12"	"4"	"12"	"4"	"9"	"12"	"4"	"6"	"9"	"12"	"9"	"12"
## "12"	[1079]	"9"	"12"	"16"	"12"	"12"	"16"	"12"	"4"	"16"	"12"	NA	"12"	"16"
## "12"	[1093]	"9"	"6"	"12"	"4"	"9"	NA	"9"	"12"	"16"	"9"	"12"	"16"	"12"
## "12"	[1107]	"12"	"9"	"12"	"12"	"16"	"12"	"12"	"16"	"16"	"9"	"12"	"4"	"4"
## "12"	[1121]	"12"	"12"	"12"	"12"	"12"	"16"	"12"	"16"	"12"	"12"	"16"	"4"	"9"

##	[1135]	"6"	"4"	"12"	"12"	"12"	"4"	"12"	"12"	"16"	"12"	"6"	"12"	"12"	"12"
##	[1149]	"6"	"9"	"12"	"16"	"9"	"12"	"16"	"16"	"9"	"9"	"12"	"12"	"12"	"12"
##	[1163]	"12"	"4"	"9"	"16"	"12"	"12"	"6"	"16"	"12"	"16"	"12"	"16"	"16"	"9"
##	[1177]	"16"	"16"	"16"	"12"	"16"	"16"	"9"	"4"	"16"	"9"	NA	"6"	"9"	"12"
##	[1191]	"16"	"4"	"12"	"16"	"16"	"9"	"12"	"4"	"9"	"4"	"9"	"16"	"16"	"16"
##	[1205]	"4"	"12"	"9"	"16"	"16"	"12"	"9"	"16"	"16"	"12"	"16"	"16"	"9"	"12"
##	[1219]	"9"	"9"	"12"	"9"	"12"	"12"	"9"	"12"	"12"	"9"	"12"	"9"	"12"	"12"
##	[1233]	"12"	"12"	"9"	"12"	"16"	"12"	"4"	"12"	"12"	"12"	"9"	"12"	"12"	"4"
##	[1247]	"9"	"12"	"16"	"16"	"4"	NA	"12"	"16"	"4"	NA	"12"	"12"	"16"	"9"
##	[1261]	"9"	"9"	"9"	"12"	"6"	NA	"4"	"4"	"12"	"12"	"12"	"12"	"16"	"12"
##	[1275]	"4"	"9"	"4"	"12"	"16"	"6"	"12"	"4"	"16"	"16"	"16"	"12"	"12"	NA
##	[1289]	"12"	"6"	NA	"6"	"16"	"16"	"9"	"12"	"12"	"4"	"4"	"12"	"9"	"6"
##	[1303]	"6"	"16"	"16"	"12"	"16"	"16"	"12"	"12"	"12"	"12"	"16"	"12"	"4"	NA
##	[1317]	"9"	"12"	"12"	"16"	"4"	"16"	"16"	"12"	"12"	"16"	"4"	"4"	"12"	"16"
##	[1331]	"16"	"12"	"16"	"4"	"4"	"12"	"16"	"16"	"12"	"16"	"4"	"9"	"16"	"9"
##	[1345]	"16"	"12"	"12"	"12"	"12"	NA	"12"	"9"	"12"	"12"	"16"	"9"	"9"	"9"
##	[1359]	"12"	"9"	"16"	"12"	"12"	"4"	"16"	"9"	"9"	"6"	"12"	"12"	"12"	"4"
##	[1373]	"9"	"6"	"9"	"9"	"9"	"9"	"9"	"9"	"4"	"12"	"16"	"4"	"4"	"4"
##	[1387]	"12"	"12"	"12"	"9"	"9"	"9"	"4"	"12"	"12"	"16"	"12"	"12"	"12"	"12"
##	[1401]	"12"	"16"	"16"	"16"	"9"	"4"	"9"	"9"	"9"	"9"	"16"	"16"	"12"	"6"
##	[1415]	"12"	"12"	"9"	"12"	"4"	"4"	NA	"9"	"12"	"12"	"4"	"12"	"16"	"12"
##	[1429]	"12"	NA	"16"	"12"	NA	"4"	"9"	"12"	"6"	"9"	"16"	"12"	"16"	"12"
##	[1443]	"4"	"9"	"12"	"12"	"12"	"9"	"12"	"9"	"9"	"12"	"16"	"12"	"9"	"4"
##	[1457]	"16"	"16"	"12"	"6"	"9"	"4"	"4"	"9"	"9"	"9"	"6"	"12"	"12"	"16"
##	[1471]	"12"	"9"	"4"	"12"	"16"	"16"	"4"	"12"	"16"	"4"	"9"	"9"	"12"	"6"

## "9"	[1485]	"6"	"4"	"9"	"4"	"4"	"6"	"16"	"4"	"12"	"12"	"12"	"4"	"12"
## "12"	[1499]	"12"	"9"	"16"	"12"	"12"	"12"	"9"	"16"	"9"	"16"	"16"	"9"	"12"
## "4"	[1513]	"9"	"12"	"16"	"9"	"12"	"6"	"12"	"6"	"16"	"9"	"12"	"9"	"16"
## "12"	[1527]	"16"	"12"	"9"	"16"	"12"	"16"	"12"	"16"	"9"	"12"	NA	NA	NA
## "12"	[1541]	"12"	"12"	"12"	"9"	"16"	"16"	"9"	"12"	"12"	NA	"12"	"16"	"12"
## "6"	[1555]	"16"	"12"	"9"	"16"	"12"	"12"	"16"	"9"	NA	NA	"12"	"12"	"16"
## "12"	[1569]	"12"	"16"	"12"	"6"	"4"	"4"	"12"	"4"	NA	"9"	"9"	"16"	"16"
## "16"	[1583]	"16"	"6"	"4"	"6"	"9"	"16"	"16"	"12"	NA	"4"	"12"	NA	"9"
## "6"	[1597]	"9"	"12"	"4"	"16"	"6"	"16"	"12"	"4"	"9"	"12"	"12"	"4"	"16"
## NA	[1611]	"6"	"4"	"16"	"16"	NA	"12"	"9"	"16"	"16"	"12"	"12"	"12"	"9"
## "9"	[1625]	"12"	NA	"16"	"16"	"4"	"12"	"9"	"4"	"9"	"12"	"12"	"9"	"12"
## "9"	[1639]	"9"	"12"	"4"	"4"	"6"	"9"	"9"	"12"	"9"	"12"	"12"	"4"	"12"
## "4"	[1653]	"6"	"9"	"12"	"16"	"9"	"9"	"12"	"9"	"12"	"4"	"16"	"6"	"12"
## "4"	[1667]	"16"	"12"	"16"	NA	"12"	"12"	"16"	"6"	"6"	"16"	"4"	"16"	"4"
## "16"	[1681]	"12"	"16"	"12"	"12"	"16"	"4"	"16"	"12"	"16"	NA	"12"	"4"	"12"
## "9"	[1695]	"4"	"9"	"12"	"12"	"4"	"12"	"6"	"12"	"12"	"12"	"9"	NA	"12"
## "16"	[1709]	"9"	"9"	"4"	"9"	"6"	"12"	"16"	"12"	"12"	"16"	"12"	"12"	"4"
## NA	[1723]	"6"	"12"	"9"	"9"	"9"	"6"	"12"	"12"	"12"	"16"	"9"	"12"	"12"
## NA	[1737]	"16"	"16"	"12"	"12"	"9"	"16"	"9"	"12"	"4"	"16"	NA	"4"	"16"
## "9"	[1751]	"4"	"9"	"12"	"6"	"12"	"9"	"9"	"9"	"12"	"16"	"12"	"12"	"12"
## "12"	[1765]	"4"	"4"	"12"	"4"	"9"	"6"	"4"	"9"	"12"	"9"	"6"	"16"	"12"
## "12"	[1779]	"9"	"12"	"9"	"9"	"12"	"16"	"12"	"16"	"6"	"12"	"4"	"4"	NA
## "16"	[1793]	"16"	"12"	"9"	"12"	"4"	"12"	"9"	"9"	"6"	"12"	"9"	"9"	"16"
## "12"	[1807]	"6"	"12"	"12"	"9"	"9"	"12"	"16"	"12"	"9"	"9"	"4"	"9"	"4"
## "6"	[1821]	"9"	"6"	"9"	"9"	"6"	"12"	"12"	"9"	"9"	"16"	"12"	"4"	"16"

## "12"	[1835]	"4"	"12"	"12"	"16"	"9"	"9"	"4"	"6"	"9"	"9"	"12"	"9"	"12"
## "12"	[1849]	"4"	"12"	"12"	"12"	NA	"12"	"16"	"12"	"9"	"16"	"12"	"6"	"6"
## "6"	[1863]	"9"	"16"	"4"	"4"	NA	"16"	"4"	"9"	"16"	"12"	"9"	"12"	"12"
## "16"	[1877]	"12"	"12"	"12"	"12"	"9"	"9"	"16"	"9"	"6"	"4"	"12"	"16"	"6"
## "12"	[1891]	"12"	"16"	"16"	NA	"16"	"4"	"12"	"9"	"9"	"16"	"12"	"9"	"4"
## "9"	[1905]	"12"	"12"	"9"	"12"	"12"	"4"	"16"	"4"	"16"	"12"	"16"	"12"	"9"
## "9"	[1919]	"9"	"9"	"12"	"12"	"12"	"9"	"9"	"9"	"16"	"16"	"12"	"4"	"9"
## "9"	[1933]	"16"	"9"	"6"	"9"	"12"	"12"	"12"	"12"	"9"	"12"	"12"	"12"	"9"
## "6"	[1947]	"12"	"12"	"16"	"12"	"12"	"9"	"16"	"12"	"12"	"4"	"12"	"12"	"9"
## "9"	[1961]	"12"	"9"	"4"	NA	"12"	"12"	"9"	"16"	"16"	"12"	"4"	"4"	"12"
## "12"	[1975]	"12"	"12"	"9"	"9"	"16"	"9"	"16"	"12"	NA	"12"	"16"	"12"	"16"
## "4"	[1989]	"9"	"4"	"9"	"16"	"16"	"16"	"12"	"16"	"16"	"12"	"9"	"16"	"6"
## "6"	[2003]	"16"	NA	"12"	"9"	"9"	"6"	NA	"9"	"12"	"16"	"4"	"4"	"6"
## "12"	[2017]	"4"	"16"	"12"	"9"	"12"	"16"	"16"	"12"	"6"	"16"	"9"	"16"	"9"
## NA	[2031]	"9"	"12"	"12"	"9"	"16"	"12"	"4"	"12"	"4"	"9"	"9"	"12"	"12"
## "9"	[2045]	"12"	"9"	"6"	"9"	"12"	"6"	"12"	"6"	"12"	"9"	"4"	"12"	"16"
## NA	[2059]	"4"	"12"	"12"	"12"	"12"	"4"	"4"	"16"	"12"	NA	"4"	NA	"12"
## "4"	[2073]	"9"	"4"	"12"	"12"	"12"	"12"	"6"	"4"	"16"	"12"	"9"	"9"	"9"
## "6"	[2087]	"12"	"12"	"6"	"16"	"16"	"6"	"16"	"12"	"4"	NA	"16"	"4"	"4"
## "4"	[2101]	"9"	"9"	"6"	"12"	"12"	"6"	"12"	"12"	"12"	"9"	"16"	"9"	"12"
## NA	[2115]	"16"	"6"	"16"	"4"	"12"	"16"	"6"	"9"	"12"	"12"	"4"	"4"	"12"
## "12"	[2129]	"9"	"4"	"6"	"9"	"4"	NA	"12"	NA	"4"	"12"	"9"	"4"	"12"
## "4"	[2143]	"4"	"6"	"12"	"6"	"9"	"9"	"4"	"12"	"16"	"9"	"6"	"4"	"16"
## "16"	[2157]	"16"	"16"	"9"	"16"	NA	"4"	"4"	"16"	"12"	"16"	"12"	"12"	"4"
## "12"	[2171]	"12"	"4"	"6"	"16"	"16"	"9"	"12"	NA	"16"	"16"	"6"	"12"	"4"

##	[2185]	"12"	"16"	"9"	"9"	"9"	"16"	"9"	"9"	"4"	"9"	"9"	"9"	"6"
##	[2199]	"6"	"12"	"12"	"4"	NA	"16"	"16"	"4"	NA	NA	"16"	"12"	"12"
##	[2213]	"12"	"6"	"4"	"12"	"12"	NA	"4"	"16"	"16"	"16"	"4"	"9"	"16"
##	[2227]	"6"	"16"	"16"	"12"	"9"	"16"	"12"	"16"	"12"	"16"	"4"	"16"	"16"
##	[2241]	"9"	"16"	"16"	"16"	"12"	"4"	"12"	"12"	"12"	"9"	"16"	"9"	NA
##	[2255]	"4"	"12"	"16"	"16"	NA	"16"	"16"	"12"	"6"	"12"	"12"	"12"	"16"
##	[2269]	"12"	"16"	NA	"12"	"16"	"12"	"9"	"9"	"12"	"6"	"4"	"6"	"9"
##	[2283]	"12"	"16"	"16"	"4"	"9"	"12"	"12"	"12"	"12"	"4"	"12"	"12"	"6"
##	[2297]	"9"	"16"	"9"	"9"	"9"	"16"	"16"	"6"	"12"	"6"	"16"	"12"	"12"
##	[2311]	"16"	"12"	"9"	"12"	"12"	"12"	"4"	"12"	"9"	"12"	"16"	"4"	NA
##	[2325]	"16"	"12"	"12"	"16"	"6"	"12"	"6"	"4"	"9"	"16"	"6"	"4"	"16"
##	[2339]	"12"	"16"	"4"	"12"	NA	"12"	"4"	"9"	"16"	"12"	NA	"4"	"12"
##	[2353]	"12"	"12"	"4"	"9"	"9"	"9"	"9"	"12"	NA	"12"	"16"	"4"	"16"
##	[2367]	"16"	"12"	"16"	"12"	"12"	"9"	NA	"12"	"12"	"16"	"6"	"12"	"12"
##	[2381]	"9"	NA	"4"	"12"	"6"	"16"	"4"	"16"	"16"	"12"	"4"	"16"	"4"
##	[2395]	"16"	"16"	"9"	"16"	"12"	"16"	"12"	"6"	"12"	"12"	"9"	"4"	"9"
##	[2409]	"12"	"12"	"9"	"12"	"6"	"9"	"16"	"9"	"9"	"12"	"16"	"16"	"4"
##	[2423]	"16"	"4"	"16"	"12"	"4"	"12"	"12"	"9"	"9"	"16"	"9"	"9"	"12"
##	[2437]	"9"	"6"	"12"	"9"	"16"	"16"	"9"	"16"	"12"	"12"	"9"	"16"	"9"
##	[2451]	"12"	"16"	"4"	"16"	"12"	"4"	"12"	"16"	"12"	"9"	"6"	"16"	"12"
##	[2465]	"9"	"12"	"12"	"9"	"16"	"16"	"16"	"16"	"9"	"4"	"16"	"9"	"12"
##	[2479]	"9"	"9"	"6"	"9"	"4"	"4"	"16"	"9"	"6"	"12"	"9"	"12"	"16"
##	[2493]	"12"	"9"	"12"	"12"	"12"	"12"	"6"	"4"	"12"	"6"	"12"	"12"	"9"
##	[2507]	"16"	"16"	"12"	"9"	"16"	"16"	"9"	"12"	"12"	"12"	"12"	"16"	"9"
##	[2521]	"12"	"9"	"12"	"12"	"16"	"16"	"16"	"16"	"12"	"16"	"9"	"9"	"4"

##	[2535]	"12"	NA	"16"	"9"	"12"	"4"	"16"	"16"	"9"	"12"	"4"	"12"	"6"	"16"
##	[2549]	"12"	"4"	"16"	"12"	"6"	"12"	"16"	"12"	"6"	"12"	"4"	"12"	"12"	"4"
##	[2563]	"4"	"6"	"9"	"12"	NA	"12"	"12"	"6"	NA	"4"	"12"	"9"	"4"	"4"
##	[2577]	"12"	"6"	"9"	"4"	"9"	"12"	"12"	"16"	"16"	"6"	"6"	"9"	"9"	"12"
##	[2591]	"16"	"4"	"12"	"4"	"9"	"4"	"16"	"6"	"4"	"9"	"6"	"12"	"9"	"9"
##	[2605]	"4"	"6"	"16"	"16"	"16"	"6"	"9"	"16"	"16"	"9"	"9"	"12"	"16"	"9"
##	[2619]	"6"	"9"	"12"	NA	"12"	"16"	"12"	"12"	"6"	"16"	"12"	"4"	"12"	"12"
##	[2633]	"9"	"9"	"9"	"9"	"16"	"9"	"12"	"4"	"4"	"9"	"12"	"12"	"16"	"12"
##	[2647]	"12"	"4"	"4"	"16"	"4"	"12"	"4"	"12"	"12"	"16"	"9"	"12"	"16"	"9"
##	[2661]	"12"	"16"	"9"	"9"	"12"	"12"	"12"	"12"	"12"	"6"	"12"	"6"	"9"	"9"
##	[2675]	"9"	"12"	"9"	"9"	"16"	"12"	"12"	"9"	"16"	"12"	"12"	"16"	"9"	"9"
##	[2689]	"12"	"16"	"12"	"12"	"16"	"4"	"4"	"9"	"4"	"9"	"4"	"16"	"9"	"12"
##	[2703]	"12"	"16"	"12"	"12"	"12"	"6"	"9"	"12"	"12"	"16"	"12"	"12"	"4"	"12"
##	[2717]	"6"	"9"	"4"	"12"	"9"	"4"	"6"	"12"	"4"	"12"	"12"	"16"	"12"	"6"
##	[2731]	"9"	"16"	"16"	"9"	"16"	"9"	"12"	"16"	"9"	NA	"12"	"16"	"12"	"9"
##	[2745]	"12"	"12"	"9"	"9"	"12"	"12"	"12"	"9"	NA	"12"	"9"	"12"	"4"	"9"
##	[2759]	"12"	"12"	"12"	"16"	"12"	"16"	"9"	"16"	"16"	"16"	"12"	"4"	"16"	"16"
##	[2773]	"12"	"4"	"9"	NA	"4"	"4"	"4"	"16"	"9"	"12"	"16"	"12"	"4"	"12"
##	[2787]	"16"	"9"	"12"	"4"	"16"	"4"	"9"	"12"	"12"	"4"	NA	"6"	"12"	"12"
##	[2801]	"4"	NA	"16"	"12"	"12"	"4"	"9"	"12"	"9"	"12"	"12"	"9"	NA	NA
##	[2815]	"12"	"9"	"9"	"12"	"12"	"12"	"12"	"9"	"16"	"6"	NA	"9"	"9"	"9"
##	[2829]	"4"	"4"	"4"	"12"	"16"	"4"	"9"	"12"	"9"	"12"	"9"	"16"	NA	"12"
##	[2843]	"9"	"12"	"4"	"9"	"4"	"12"	NA	"12"	"16"	"12"	"16"	NA	"9"	"9"
##	[2857]	"4"	"6"	"6"	NA	"16"	"6"	"12"	NA	"12"	"6"	"9"	"16"	"12"	"12"
##	[2871]	"12"	"4"	"16"	"12"	"12"	"12"	"9"	"16"	"9"	"12"	"16"	"4"	"9"	"12"

##	[2885]	"6"	"12"	"12"	"9"	"16"	NA	"16"	"16"	"6"	"12"	"16"	"16"	"16"
##	[2899]	"9"	"12"	"9"	"12"	"16"	"4"	"6"	"9"	"16"	"16"	"12"	"16"	"9"
##	[2913]	"6"	"16"	"12"	"9"	NA	"12"	"16"	"12"	"4"	"12"	"16"	"6"	"12"
##	[2927]	"4"	"16"	"9"	"9"	"6"	"12"	"12"	"4"	"12"	"12"	"4"	"9"	"12"
##	[2941]	"9"	"9"	"4"	"9"	"9"	NA	"4"	"4"	"12"	"12"	"12"	"4"	"9"
##	[2955]	"6"	"16"	"12"	"9"	"6"	"4"	"12"	"12"	"6"	"4"	"9"	"4"	"9"
##	[2969]	NA	"9"	"12"	"16"	"12"	"16"	"12"	"16"	"16"	"12"	"4"	"9"	"16"
##	[2983]	"16"	"16"	"12"	"12"	"16"	"12"	"4"	"9"	NA	"9"	"9"	"12"	NA
##	[2997]	"12"	"6"	"16"	"4"	"16"	"9"	"4"	"9"	"16"	"12"	"9"	"12"	"12"
##	[3011]	"9"	"12"	"12"	"4"	"12"	"16"	"4"	"4"	"12"	"4"	"12"	"4"	"16"
##	[3025]	"12"	"12"	"12"	"16"	"9"	"16"	"4"	"12"	"12"	"12"	"9"	"16"	"6"
##	[3039]	"16"	"6"	"9"	"16"	"12"	"12"	"12"	"4"	"12"	"12"	"12"	"16"	"4"
##	[3053]	"16"	"12"	"12"	"4"	"12"	"12"	"12"	"12"	"4"	"4"	"16"	"16"	"9"
##	[3067]	NA	"12"	"12"	"9"	"12"	"12"	"16"	"4"	"9"	"12"	"9"	"12"	"16"
##	[3081]	"16"	"12"	"16"	"12"	"9"	"16"	"9"	"4"	"9"	"16"	"16"	"9"	"9"
##	[3095]	"9"	"6"	"12"	"16"	"4"	"16"	"4"	"16"	"12"	"16"	"12"	"12"	"16"
##	[3109]	"16"	"6"	"12"	"6"	"12"	"16"	"12"	"16"	"12"	"16"	"4"	"16"	"6"
##	[3123]	"4"	"9"	"12"	"12"	"4"	"12"	"9"	"4"	"12"	"16"	"12"	"12"	"12"
##	[3137]	"4"	"12"	NA	"16"	"12"	"12"	"9"	"16"	"9"	"12"	"16"	"12"	"9"
##	[3151]	"12"	"12"	"12"	"9"	"9"	"12"	"12"	"12"	"4"	"12"	"9"	"9"	"9"
##	[3165]	"9"	"12"	"9"	"12"	"12"	"12"	"12"	"16"	"12"	"16"	"16"	"4"	"12"
##	[3179]	"9"	"12"	"9"	"16"	"12"	"16"	"16"	"12"	"4"	"12"	"16"	"4"	"9"
##	[3193]	"9"	"16"	"16"	"4"	"12"	"9"	"16"	"12"	"6"	"9"	"16"	"9"	"9"
##	[3207]	"6"	"12"	"6"	"12"	"12"	"9"	"16"	"16"	"12"	"9"	"12"	"16"	"12"
##	[3221]	"12"	"12"	"4"	"9"	"12"	"12"	"16"	"16"	"9"	"16"	"6"	"4"	"9"

## "6"	[3235]	"12"	"12"	"12"	"16"	"16"	"12"	"16"	"16"	"6"	"4"	"12"	"16"	"12"
## NA	[3249]	"9"	"9"	"9"	"6"	"12"	"9"	"12"	NA	"12"	"12"	"12"	"16"	"4"
## "12"	[3263]	"9"	"12"	"6"	"16"	"6"	"12"	"16"	"12"	"9"	"6"	"16"	"12"	"4"
## "12"	[3277]	"6"	"6"	"16"	"4"	"12"	"12"	"12"	"4"	"4"	NA	"4"	"4"	"12"
## "16"	[3291]	"9"	NA	"6"	"16"	"12"	"16"	"6"	"6"	"9"	"4"	"12"	"12"	"12"
## "4"	[3305]	"6"	"12"	"4"	"16"	"12"	"12"	"9"	"12"	"4"	"16"	"12"	"9"	"12"
## NA	[3319]	"12"	"12"	"9"	"4"	"9"	"12"	"9"	"4"	"4"	"12"	"16"	"9"	"9"
## "12"	[3333]	"9"	"16"	"12"	"12"	"4"	"16"	"12"	"12"	"6"	"9"	"12"	"16"	"9"
## "9"	[3347]	"4"	"12"	"12"	"16"	"16"	"12"	NA	"16"	"16"	"16"	"9"	"16"	"16"
## "6"	[3361]	"12"	"16"	"16"	"16"	"12"	"16"	"9"	"16"	"16"	"4"	"4"	"16"	"9"
## "6"	[3375]	"12"	"4"	"16"	"9"	NA	"12"	"12"	"4"	"16"	"12"	"4"	"12"	"6"
## "4"	[3389]	"12"	"16"	"12"	"16"	"12"	"6"	"4"	"16"	"12"	"6"	NA	"9"	"9"
## "16"	[3403]	"16"	"12"	"9"	"16"	NA	"12"	"9"	"16"	"9"	"16"	"9"	"16"	"9"
## NA	[3417]	NA	"16"	"9"	"4"	"12"	"16"	"9"	"12"	"6"	"6"	"9"	"9"	NA
## "12"	[3431]	"9"	"16"	"16"	"12"	"12"	"12"	"16"	"4"	"4"	NA	"12"	"16"	"6"
## "9"	[3445]	"4"	"16"	"16"	"12"	"6"	"16"	"16"	"12"	"16"	"16"	"16"	"12"	"16"
## "12"	[3459]	"6"	"16"	"16"	"6"	"12"	"6"	"6"	"6"	"4"	"12"	"16"	"16"	"6"
## "6"	[3473]	"9"	"12"	"4"	"4"	"9"	"12"	"16"	"6"	"6"	"12"	"16"	"4"	"12"
## "6"	[3487]	"12"	"12"	"16"	NA	"9"	"12"	"4"	"9"	"16"	"12"	"12"	"16"	"9"
## "16"	[3501]	"12"	"12"	"6"	"6"	"9"	"4"	"4"	"4"	"16"	"16"	"6"	"12"	"12"
## "16"	[3515]	"12"	"12"	"9"	"12"	"16"	"12"	"12"	"16"	"16"	"12"	"12"	"16"	"12"
## "16"	[3529]	"12"	"16"	"12"	"12"	"16"	"4"	"16"	"0"	"4"	NA	"12"	"9"	"16"
## "9"	[3543]	"12"	"4"	"16"	"4"	NA	"12"	"9"	NA	"4"	"9"	"12"	"6"	"12"
## "16"	[3557]	"9"	"12"	"12"	"16"	"12"	"9"	NA	"12"	"12"	"12"	"4"	"12"	"12"
## "16"	[3571]	"9"	"16"	"9"	"6"	"4"	"12"	"16"	"12"	"12"	"12"	"16"	"12"	"12"

[3585] "9" "12" "9" "9" "6" "12" "16" NA "16" "12" "16" "12" "16"
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[3599] "16" "12" "16" "12" NA "4" "12" "12" "4" "16" "9" "12" "16"
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[3795] "12" "6" NA "12" "12" "16" "12" "12" "9" "16" "16" "12" "12"
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"16"
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"9"
[3851] "12" "16" "12" "12" "12" "9" "12" "12" "12" "4" "12" NA "6"
"12"
[3865] "12" "16" "6" "6" "4" "16" "12" "6" "12" "9" "16" "16" "12"
"12"
[3879] "9" NA "12" "12" NA "4" "6" NA "12" "12" "12" "16" "12"
"9"
[3893] "12" NA "6" "9" "16" "9" "9" "6" "9" "9" "12" "16" "9"
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[3907] "12" "12" "12" "12" "9" "12" "6" "9" "16" "9" "12" "9" "12"
"6"
[3921] "16" "12" "9" "6" "12" "12" "12" "12" "12" "12" "9" "16" "6"
"9"

## "12"	[3935]	"9"	"6"	"4"	"9"	"12"	"9"	"4"	"12"	"4"	"16"	"9"	"6"	"4"
## "16"	[3949]	"4"	"12"	"6"	"6"	"9"	"16"	"9"	"12"	"4"	"12"	"16"	"4"	"12"
## "12"	[3963]	"16"	"9"	"9"	"12"	"12"	"12"	"6"	"12"	"9"	"9"	"6"	"9"	"16"
## "12"	[3977]	"9"	"12"	"9"	"12"	"6"	"16"	"12"	"12"	"12"	"9"	"12"	"12"	"16"
## "16"	[3991]	"12"	"16"	"16"	"9"	"16"	"4"	"16"	"4"	"6"	"12"	NA	"9"	"16"
## "16"	[4005]	"12"	"12"	"12"	"9"	"12"	"12"	"9"	"9"	"4"	"16"	"9"	"16"	"4"
## "16"	[4019]	"16"	"16"	"12"	"9"	"16"	"12"	"9"	"12"	"12"	"6"	"12"	"12"	"9"
## "12"	[4033]	"9"	"4"	"6"	"16"	"4"	"4"	"9"	"12"	"12"	"12"	"16"	NA	"12"
## "6"	[4047]	"9"	"12"	"12"	"9"	"4"	"12"	"12"	"12"	"9"	"12"	"12"	"12"	"12"
## "9"	[4061]	"6"	"12"	"4"	"16"	"12"	"12"	"12"	"12"	"9"	"12"	"4"	"9"	"9"
## "4"	[4075]	"12"	"9"	"16"	"12"	"12"	"9"	"16"	"6"	"16"	"16"	"12"	"12"	"12"
## "9"	[4089]	"12"	"12"	"9"	"12"	"9"	"12"	"12"	"12"	"12"	NA	"9"	"9"	"12"
## "9"	[4103]	"9"	"9"	"16"	"16"	"4"	"12"	"9"	"12"	"16"	"12"	"9"	"6"	NA
## NA	[4117]	"16"	"4"	"12"	"16"	"4"	"12"	"12"	"6"	"12"	"16"	"4"	"9"	"16"
## "16"	[4131]	"9"	"12"	"9"	"12"	"16"	"4"	"16"	"16"	"16"	"12"	"4"	"9"	"9"
## "16"	[4145]	"12"	"6"	"12"	"12"	"16"	"4"	"9"	"16"	"16"	"12"	"4"	"9"	"16"
## "16"	[4159]	"12"	"12"	"6"	"9"	NA	"16"	"12"	"9"	"12"	"12"	"12"	"12"	NA
## "16"	[4173]	"12"	"16"	"9"	"12"	"9"	"9"	"6"	"12"	"9"	"4"	"4"	"16"	"6"
## "12"	[4187]	"9"	"12"	"4"	"12"	"12"	"12"	"4"	"12"	"4"	"12"	"12"	"16"	"16"
## "16"	[4201]	"12"	"12"	"12"	"12"	"9"	NA	"12"	"9"	"6"	"9"	"9"	"16"	"9"
## "6"	[4215]	"9"	"12"	"12"	"9"	"4"	"9"	"12"	"4"	"12"	"16"	"12"	"12"	"12"
## "9"	[4229]	"16"	"4"	"12"	"4"	"16"	"12"	"12"	"16"	"12"	"9"	"6"	"4"	"12"
## "16"	[4243]	"16"	"9"	"6"	"12"	"12"	"12"	"4"	"12"	"12"	"4"	"16"	"16"	"16"
## "9"	[4257]	"12"	"12"	"12"	"12"	"9"	"12"	"16"	"12"	"12"	"9"	"12"	"12"	"16"
## "12"	[4271]	"4"	"16"	"16"	"16"	"12"	"9"	"16"	"9"	"16"	"16"	"12"	"12"	"12"

## "6"	[4285]	"12"	"9"	"16"	"12"	"12"	"16"	"12"	"6"	"9"	"4"	"12"	"9"	"6"
## "9"	[4299]	"12"	"12"	"12"	"9"	"9"	"4"	"9"	"12"	"4"	"9"	"12"	"16"	"9"
## NA	[4313]	"9"	"16"	"9"	"12"	"12"	"6"	"4"	"4"	"16"	"6"	"16"	"9"	"16"
## "16"	[4327]	"12"	"4"	"6"	"12"	"9"	"4"	"4"	"12"	"16"	"16"	"12"	"12"	"6"
## NA	[4341]	"9"	"9"	"9"	"16"	"9"	"12"	"6"	"16"	"12"	NA	"9"	"4"	"12"
## "4"	[4355]	"6"	"12"	"4"	"4"	"6"	"4"	"12"	"12"	"4"	"16"	"9"	"9"	"9"
## "12"	[4369]	"9"	"12"	"16"	"12"	"6"	"16"	"9"	"12"	"9"	NA	"16"	"12"	"9"
## "12"	[4383]	"9"	"16"	"12"	"6"	"12"	"9"	"4"	"12"	"12"	"12"	"12"	"9"	NA
## "4"	[4397]	"9"	"12"	"16"	"4"	"16"	"12"	"4"	"12"	"9"	"12"	"12"	"9"	"4"
## "9"	[4411]	"12"	"12"	"12"	"9"	"16"	"16"	"6"	"4"	"9"	"16"	"12"	"6"	"4"
## "9"	[4425]	"9"	"4"	"12"	"12"	"12"	"9"	"12"	"16"	"12"	"12"	"9"	"9"	"16"
## "16"	[4439]	"9"	"16"	"16"	NA	"9"	"9"	"16"	"9"	"4"	"12"	NA	"12"	"9"
## "9"	[4453]	"9"	"4"	"4"	"12"	"16"	"4"	"12"	"12"	"9"	"12"	"12"	"9"	"12"
## "16"	[4467]	"4"	"16"	"16"	"4"	"16"	"12"	"16"	"16"	"9"	"12"	"16"	"16"	"9"
## "6"	[4481]	"4"	"12"	"16"	"12"	"12"	"12"	"12"	"12"	"9"	"16"	"12"	"12"	"16"
## "16"	[4495]	"9"	"12"	"16"	"16"	"16"	"12"	"12"	"16"	"16"	"12"	"16"	"12"	"12"
## "12"	[4509]	"12"	"16"	"9"	"6"	"9"	"12"	"9"	"12"	"9"	"12"	"12"	"4"	"12"
## "12"	[4523]	"9"	"12"	"6"	"16"	"6"	"4"	"9"	"16"	"4"	"9"	"9"	"4"	"16"
## "16"	[4537]	"16"	"9"	"16"	"9"	"4"	"9"	"6"	"9"	NA	NA	"6"	"4"	"12"
## "16"	[4551]	"12"	"9"	"16"	"0"	"12"	"9"	"12"	"12"	"12"	NA	"12"	"12"	"9"
## "12"	[4565]	"9"	NA	NA	"9"	"9"	"16"	"12"	"4"	"9"	"12"	"12"	"12"	"4"
## "16"	[4579]	"9"	"9"	"9"	"16"	"4"	"9"	"12"	"12"	"16"	"9"	"12"	"9"	"12"
## "9"	[4593]	"4"	"16"	"4"	"16"	"16"	"4"	"4"	NA	"12"	"4"	"12"	"12"	"16"
## "16"	[4607]	"12"	"6"	"9"	"12"	"12"	"16"	"16"	"12"	NA	"16"	"16"	"12"	"16"
## "16"	[4621]	"6"	"9"	"4"	"9"	"6"	"4"	"16"	"12"	"12"	"4"	"12"	"16"	"9"

##	[4635]	"16"	"12"	"12"	"12"	"9"	"9"	"4"	"16"	"12"	"12"	"16"	"12"	"12"	"9"
##	[4649]	NA	NA	"16"	"12"	"16"	"12"	NA	"12"	"12"	"12"	"16"	"12"	"12"	"16"
##	[4663]	"12"	"12"	"9"	"16"	"9"	"4"	"4"	"12"	"16"	"16"	"4"	"12"	"16"	"6"
##	[4677]	"9"	"9"	"12"	"12"	"9"	"12"	"6"	"16"	"16"	"16"	"12"	"12"	"12"	"12"
##	[4691]	"12"	"9"	"12"	"12"	NA	"16"	"16"	"16"	NA	"9"	"6"	"16"	"9"	"9"
##	[4705]	"16"	"16"	"12"	"16"	"12"	NA	"16"	"16"	"6"	"4"	"12"	"4"	NA	"16"
##	[4719]	"9"	"12"	"16"	"9"	"9"	"4"	"4"	"16"	"4"	"4"	"16"	"4"	"12"	"6"
##	[4733]	"4"	"16"	"12"	"9"	"12"	"16"	"12"	"9"	"9"	"6"	"16"	NA	"4"	"12"
##	[4747]	"9"	"16"	"12"	"9"	"12"	"6"	"4"	"12"	"4"	"16"	"12"	"12"	"9"	"12"
##	[4761]	"12"	"16"	"16"	"16"	"12"	NA	"9"	"16"	"4"	NA	"9"	"4"	"12"	"16"
##	[4775]	"12"	"16"	"16"	"16"	"4"	"4"	"6"	"4"	"16"	"9"	"4"	"12"	"16"	"9"
##	[4789]	"16"	"12"	"12"	"9"	"6"	"12"	"6"	"9"	"16"	"4"	"9"	"4"	"16"	"16"
##	[4803]	"16"	"16"	"16"	"9"	"9"	"16"	"9"	"4"	"6"	"12"	"9"	"4"	"4"	"16"
##	[4817]	"9"	"12"	NA	"4"	"12"	"16"	"16"	"12"	"12"	"6"	"16"	"6"	"12"	"4"
##	[4831]	"12"	"4"	"9"	"16"	"4"	"12"	"9"	NA	"16"	"12"	"4"	"12"	"12"	"12"
##	[4845]	"9"	"12"	"6"	"4"	"9"	"16"	"16"	"16"	"4"	"12"	"9"	"16"	"9"	"6"
##	[4859]	"12"	"12"	"9"	"16"	"12"	"9"	"16"	"6"	"9"	"9"	"16"	"9"	"16"	"12"
##	[4873]	"12"	"6"	"12"	"12"	"9"	"16"	"6"	"12"	"16"	"16"	"12"	"12"	"12"	"12"
##	[4887]	NA	NA	"16"	"16"	"12"	"16"	"6"	NA	"9"	"4"	"9"	"4"	"16"	"12"
##	[4901]	"12"	"12"	"12"	"16"	"12"	"12"	"12"	"12"	"12"	"12"	"12"	"16"	NA	NA
##	[4915]	"4"	"9"	"16"	"16"	"12"	"12"	"9"	"9"	"12"	"4"	"12"	NA	"12"	"4"
##	[4929]	"9"	"4"	"9"	"16"	"4"	"12"	"4"	"9"	"12"	"4"	"12"	NA	"6"	"16"
##	[4943]	"9"	"12"	"12"	"12"	"12"	"9"	NA	"12"	"12"	"12"	NA	"12"	"16"	"12"
##	[4957]	"9"	"16"	"9"	"12"	"9"	NA	"9"	NA	"12"	NA	NA	"16"	"9"	"12"
##	[4971]	"16"	"16"	NA	"9"	"16"	"16"	NA	"12"	"9"	NA	"12"	"6"	"4"	"9"

##	[4985]	NA	"16"	"9"	"16"	"16"	"12"	"12"	"12"	"4"	"12"	"4"	"12"	"4"	"16"
##	[4999]	"16"	"9"	"9"	"4"	"12"	"12"	"12"	"12"	"12"	"16"	"12"	"6"	"12"	"12"
##	[5013]	"9"	"12"	"12"	"16"	"12"	"9"	"9"	"12"	"9"	"12"	"12"	"6"	NA	"16"
##	[5027]	"9"	"16"	"12"	NA	"9"	"9"	"9"	"16"	"4"	"16"	"12"	"12"	"12"	"16"
##	[5041]	"12"	NA	"12"	"9"	"16"	"6"	"16"	"9"	NA	"12"	"16"	"4"	"12"	"9"
##	[5055]	"12"	"9"	"12"	"16"	"12"	"9"	"9"	"6"	"4"	"12"	"12"	"12"	"16"	"16"
##	[5069]	"16"	"4"	"9"	"12"	"6"	"12"	"6"	"12"	"9"	"16"	"12"	"12"	"12"	"16"
##	[5083]	"12"	"12"	"9"	"12"	"12"	"12"	"6"	"12"	"12"	NA	NA	"12"	"12"	"16"
##	[5097]	"6"	"16"	"12"	"9"	"9"	"16"	"12"	"12"	"12"	"6"	"9"	"12"	"4"	"16"
##	[5111]	"16"	"12"	"9"	"12"	"12"	"9"	NA	"12"	"12"	"4"	"9"	"12"	"12"	"9"
##	[5125]	"12"	"16"	"6"	"16"	"12"	"16"	"12"	"4"	"4"	"16"	"12"	"16"	"12"	"12"
##	[5139]	"9"	"12"	"12"	"16"	"12"	"12"	"12"	NA	"16"	"12"	"16"	"12"	"9"	"12"
##	[5153]	"12"	"16"	"4"	"9"	"16"	"6"	"12"	"16"	"12"	"16"	"16"	"4"	"9"	"9"
##	[5167]	"16"	"12"	"16"	"16"	"16"	"4"	"16"	"6"	"4"	"9"	"12"	"12"	"12"	"16"
##	[5181]	"16"	"9"	"9"	"12"	NA	"6"	"6"	"16"	"9"	"16"	"12"	"9"	"12"	"12"
##	[5195]	"9"	"16"	"12"	"9"	"12"	"12"	"12"	"9"	NA	"12"	"4"	"12"	"6"	"12"
##	[5209]	"16"	"16"	"12"	"16"	"6"	"12"	"12"	"16"	"16"	"4"	NA	"16"	"16"	"12"
##	[5223]	"12"	"6"	NA	"4"	"16"	"9"	"16"	"9"	"12"	"16"	"9"	"16"	NA	"16"
##	[5237]	"12"	"16"	"12"	"9"	"4"	"12"	"12"	"16"	"16"	"12"	"12"	"12"	"9"	"16"
##	[5251]	"16"	"16"	"16"	"12"	"12"	"16"	"9"	"16"	"16"	NA	"4"	"16"	"6"	"16"
##	[5265]	"16"	"16"	"12"	"12"	"12"	"9"	"16"	"16"	"9"	"12"	"9"	"12"	"16"	"12"
##	[5279]	"16"	"9"	"12"	"6"	"9"	"4"	"9"	"12"	"6"	"12"	NA	"9"	"16"	"12"
##	[5293]	"16"	"12"	"12"	"12"	"9"	"12"	"12"	"16"	"12"	"12"	NA	"16"	"12"	"16"
##	[5307]	"4"	"6"	"9"	"9"	NA	"9"	"4"	"4"	"6"	"16"	"12"	"16"	"12"	"12"
##	[5321]	"12"	"12"	"4"	"16"	"12"	"12"	"4"	"9"	"4"	"12"	"6"	"12"	"4"	"12"

##	[5335]	"12"	"6"	"12"	"12"	"6"	"9"	"16"	"12"	NA	"16"	"6"	"12"	"12"	"16"
##	[5349]	"16"	"6"	"12"	"6"	"16"	"12"	"16"	"12"	"16"	"9"	"12"	"16"	"16"	"4"
##	[5363]	"4"	"12"	"12"	"12"	"12"	"6"	"9"	"12"	"12"	"4"	"9"	"12"	"12"	"12"
##	[5377]	"4"	"12"	"6"	"6"	"12"	"12"	"9"	"16"	"4"	NA	"4"	"9"	"9"	"12"
##	[5391]	"4"	"16"	"16"	"12"	"9"	"9"	"6"	"9"	"16"	"12"	"12"	"16"	"4"	"16"
##	[5405]	"12"	"12"	"12"	"12"	"16"	"16"	"12"	"6"	"16"	"9"	NA	"16"	"9"	NA
##	[5419]	"9"	"16"	"12"	"4"	"16"	"12"	"4"	"9"	"12"	"9"	"12"	"16"	"6"	"4"
##	[5433]	"9"	"6"	"9"	"9"	"4"	"16"	"16"	"4"	"9"	"6"	"12"	"16"	NA	"9"
##	[5447]	"4"	"4"	"12"	"9"	"9"	"9"	"12"	"12"	"12"	NA	"16"	"6"	"12"	"4"
##	[5461]	"16"	"12"	"16"	"16"	"6"	"12"	"16"	"6"	"9"	NA	"16"	"9"	"16"	"9"
##	[5475]	"12"	"16"	"9"	"9"	"16"	"16"	"12"	"12"	"12"	"4"	"6"	"9"	"4"	"16"
##	[5489]	"12"	"12"	"16"	"12"	"12"	"6"	"16"	"16"	"9"	"12"	"12"	"16"	NA	"6"
##	[5503]	"9"	"16"	"9"	"16"	"4"	"12"	"12"	"16"	"4"	"6"	"16"	"12"	"16"	"16"
##	[5517]	"12"	"4"	"16"	"12"	"12"	"16"	"12"	"9"	"12"	"12"	NA	"6"	"9"	"12"
##	[5531]	NA	"6"	"16"	"9"	NA	"9"	"9"	"16"	"12"	"12"	"9"	"12"	"16"	"16"
##	[5545]	"4"	"16"	"4"	"9"	"12"	"12"	NA	"12"	"12"	"12"	"9"	"16"	"9"	"12"
##	[5559]	NA	"9"	NA	"4"	"9"	"12"	"4"	"9"	"9"	"9"	"9"	"16"	"4"	"16"
##	[5573]	"6"	"12"	"16"	"12"	"4"	"4"	"9"	"12"	"12"	"12"	"12"	"12"	"16"	"16"
##	[5587]	"4"	"12"	"12"	"4"	"12"	"12"	"12"	"12"	"16"	"12"	"16"	"9"	"9"	"9"
##	[5601]	"12"	NA	"6"	"12"	"16"	"12"	"9"	"12"	"16"	"4"	"12"	"9"	"9"	"9"
##	[5615]	"4"	"4"	"12"	"4"	"4"	"12"	"12"	"16"	"4"	"12"	"6"	"16"	"12"	"9"
##	[5629]	"4"	"6"	NA	NA	"4"	"12"	"16"	"12"	"6"	"6"	"16"	"12"	"12"	"16"
##	[5643]	"9"	"12"	"12"	"12"	NA	"12"	"12"	"16"	"12"	"4"	"12"	"16"	"9"	"12"
##	[5657]	"12"	"16"	"16"	"16"	"12"	"16"	"12"	"4"	"9"	"12"	"12"	"9"	"4"	"9"
##	[5671]	"12"	"12"	"12"	"12"	"9"	"12"	"12"	"12"	"6"	"12"	"12"	"16"	"12"	"16"

## "9"	[5685]	"9"	"12"	"16"	"16"	"16"	NA	"4"	"12"	"12"	"16"	"12"	"16"	"9"
## "4"	[5699]	"16"	"12"	"4"	"12"	"16"	"16"	"4"	"6"	"4"	"12"	"4"	"16"	"12"
## "12"	[5713]	"12"	"9"	"12"	"16"	"9"	"12"	"12"	"12"	"4"	"12"	"9"	"9"	"12"
## "16"	[5727]	"9"	"12"	"12"	"16"	"12"	"9"	"16"	"12"	"9"	"12"	"12"	"9"	"6"
## "12"	[5741]	"4"	"16"	"16"	"12"	"12"	"9"	NA	"6"	"6"	"12"	"9"	"6"	"4"
## "16"	[5755]	NA	"4"	NA	"12"	"12"	"12"	"12"	"12"	"6"	"4"	"12"	"6"	"12"
## "12"	[5769]	"9"	"4"	NA	"4"	"6"	"12"	"16"	"9"	"12"	"12"	"12"	"12"	"12"
## "16"	[5783]	"12"	"12"	"16"	"12"	"9"	"12"	"16"	"12"	"16"	"16"	"9"	"12"	"12"
## "12"	[5797]	"4"	"12"	"16"	NA	NA	"9"	"12"	"9"	"16"	"16"	"12"	"9"	"4"
## "12"	[5811]	"16"	"12"	"16"	"12"	"9"	NA	"9"	"12"	"16"	"6"	NA	"12"	"12"
## "16"	[5825]	"4"	NA	"12"	"12"	"4"	"16"	"9"	"4"	"12"	"16"	"12"	"9"	"4"
## "12"	[5839]	"9"	"9"	"4"	"9"	"12"	"4"	"9"	"9"	NA	"4"	"4"	"4"	"6"
## "12"	[5853]	"9"	NA	"9"	"4"	"16"	"4"	"6"	"9"	"12"	"4"	"12"	"12"	"4"
## "6"	[5867]	"4"	"9"	"4"	"12"	"9"	"16"	"12"	"12"	"12"	"4"	"16"	"12"	"4"
## "12"	[5881]	NA	"12"	"12"	"12"	"12"	"12"	"9"	"16"	"4"	"9"	"12"	"16"	"16"
## NA	[5895]	"4"	"4"	"4"	"12"	"9"	"9"	"4"	"12"	"9"	"16"	"12"	"4"	"9"
## "6"	[5909]	"16"	"12"	"16"	"12"	"12"	"16"	"16"	"9"	"16"	"12"	NA	"16"	"16"
## "12"	[5923]	"9"	"16"	"9"	"9"	NA	"16"	"12"	"16"	"16"	"9"	"16"	"12"	NA
## "12"	[5937]	"6"	"4"	"12"	"6"	"4"	"12"	"6"	"12"	"4"	"12"	"16"	"9"	"4"
## "16"	[5951]	"9"	"12"	"16"	"12"	"6"	"9"	"9"	"16"	"16"	"12"	"16"	"12"	"12"
## "16"	[5965]	"9"	"12"	"12"	"12"	"16"	NA	"16"	"4"	"9"	"12"	"16"	"12"	"12"
## "16"	[5979]	"4"	"4"	"4"	"6"	"12"	"12"	"12"	"12"	"16"	"12"	"4"	"12"	"12"
## NA	[5993]	"12"	"12"	"12"	NA	"12"	"16"	"12"	NA	"12"	"16"	"12"	"12"	"9"
## "12"	[6007]	"12"	"9"	"9"	"9"	"12"	"9"	"12"	"12"	"6"	"12"	"9"	"12"	"12"
## "12"	[6021]	"4"	"4"	"9"	"16"	NA	"9"	"16"	"12"	"16"	"9"	"12"	"16"	"16"

```
## [6035] "12" "4" NA "9" "4" "12" "9" "12" NA "4" "12" "9" "12"
"12"
## [6049] "4" "12" "9" "9" "9" "9" "12" "6" "12" "12" "12" "16" "9"
"16"
## [6063] "4" "16" "12" "12" "9" "12" "12" "4" "12" "16" NA "9" "9"
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## [6077] "6" "12" "16" "16" "12" "16" "12" "12" "9" "12" "4" "12" "16"
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## [6091] "16" "12" "4" "4" "6" "4" "16" "16" "9" "12" "4" "12" "16"
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## [6105] "9" "12" "16" "16" "16" "9" "4" "16" "4" "12" "16" "4" NA
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## [6119] "4" "16" "4" "16" "16" "16" "12" "12" "9" "16" "16" "4" "12"
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## [6133] "9" "12" "16" "16" "6" "4" "9" "9" "12" "12" "16" "6" "12"
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## [6147] "12" "12" "16" "12" "12" "16" "9" "12" "9" "4" "4" "9" "12"
"12"
## [6161] "16" "12" "9" "9" "12" "16" "6" "12" "12" "12" "16" "6" NA
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## [6175] "9" "4" "16" "6" "12" "16" "16" "9" "16" "12" "4" "9" "16"
"4"
## [6189] "12" "4" "6" "6" "6" "16" "4" "6" "12" "9" "12" NA "16"
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## [6203] "12" "9" "12" "12" "16" "9" "12" "4" "12" "12" "9" "16" "9"
"16"
## [6217] "12" "12" "16" "16" "4" "4" "12" "16" "4" NA "16" "9" "9"
"12"
## [6231] "9" "16" "9" "9" "4" "16" "16" "16" "12" "16" "12" "4" "12"
"16"
## [6245] "9" "9" "16" "12" "12" "16" "6" "16" "9" "4" "16" "12" "4"
"12"
## [6259] "12" "9" "6" "9" "16" "4" "12" "12" "16" "12" "9" "9" "4"
"16"
## [6273] "6" "4" "4" "9" "9" "16" "9" "12" NA NA "6" "9" "16"
"4"
## [6287] "12" "4" "16" "6" "4" "12" "6" "12" "12" "12" "12" "4" "4"
"16"
## [6301] "6" "12" "16" "12" "12" "12" "9" "6" "12" "9" "12" "9" NA
"16"
## [6315] "6" "12" "12" "12" "9" "12" "4" "4" "12" "16" "9" "12" "12"
"12"
## [6329] "12" "4" "9" "12" "16" "12" "16" "12" "12" "12" "12" "16" "9"
"12"
## [6343] "12" "16" "12" "4" "16" "12" "9" "16" "12" "9" "4" "16" "4"
"6"
## [6357] "4" "12" "12" "12" "12" "9" "9" "16" "12" "12" "4" "16" "9"
"12"
## [6371] "6" "4" "16" "4" "12" "9" "16" "9" "9" "6" "12" "12" "16"
"16"
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## "4"	[6385]	"9"	"12"	NA	"6"	"12"	"9"	"12"	"4"	"9"	"4"	"12"	"12"	"9"
## "4"	[6399]	"4"	"12"	"12"	"16"	"4"	"4"	"16"	"16"	"9"	"12"	"12"	"12"	"6"
## "12"	[6413]	"12"	"6"	"16"	"9"	"9"	"16"	"9"	"16"	"4"	"12"	"9"	"16"	"12"
## "16"	[6427]	"9"	"9"	NA	"4"	"9"	"4"	"12"	"9"	"9"	"4"	"4"	"12"	"9"
## "4"	[6441]	"12"	"4"	"12"	NA	"12"	"9"	"16"	"6"	"16"	"4"	"9"	"6"	"4"
## "4"	[6455]	"9"	"12"	"16"	"6"	"16"	"4"	"12"	"12"	"9"	"12"	"12"	"12"	"6"
## "16"	[6469]	"12"	"4"	"4"	"4"	NA	"12"	"4"	"4"	"12"	"12"	"12"	"16"	"12"
## "9"	[6483]	"16"	"9"	"16"	"12"	"6"	"12"	"9"	"4"	"16"	"16"	"6"	"12"	"12"
## "16"	[6497]	"9"	"9"	"12"	"6"	"9"	"6"	"16"	"12"	"16"	"4"	"9"	"6"	"6"
## "12"	[6511]	"12"	"12"	"12"	"4"	"6"	"6"	"12"	"16"	"12"	"16"	"16"	"9"	"9"
## NA	[6525]	"12"	"12"	"6"	"16"	"16"	"6"	"6"	"9"	NA	"12"	"9"	"4"	NA
## "16"	[6539]	"16"	"16"	"9"	"12"	"4"	"4"	NA	"16"	NA	"12"	"12"	"12"	"9"
## "4"	[6553]	"9"	"12"	"4"	"4"	"12"	"9"	"16"	"4"	"16"	"9"	"6"	"12"	"12"
## "16"	[6567]	"9"	"9"	"16"	"12"	"16"	"16"	"9"	"9"	"12"	"16"	"12"	"12"	NA
## "12"	[6581]	"9"	"4"	"12"	NA	"12"	"9"	"16"	"16"	"4"	"12"	"4"	"4"	NA
## "12"	[6595]	"6"	NA	"16"	"9"	NA	"16"	"9"	"12"	"6"	"12"	"12"	"12"	"16"
## "9"	[6609]	"16"	"12"	"12"	"12"	"12"	"4"	"12"	"4"	NA	"9"	"16"	"6"	"12"
## "12"	[6623]	"16"	"12"	"4"	NA	"9"	"12"	NA	"12"	"16"	"12"	"9"	"9"	"12"
## "16"	[6637]	"12"	"16"	NA	"12"	NA	"12"	NA	"16"	"4"	"12"	"9"	"16"	"12"
## "12"	[6651]	"16"	NA	"9"	"12"	"16"	"12"	"12"	"12"	"9"	"12"	"4"	"12"	"12"
## "4"	[6665]	"4"	"16"	"16"	"4"	"12"	"16"	"16"	"12"	"4"	"9"	"12"	"4"	"16"
## "12"	[6679]	"4"	"4"	"12"	"12"	"4"	"12"	"16"	"12"	"9"	"16"	"9"	"12"	"12"
## "16"	[6693]	"16"	"16"	"12"	"4"	"16"	"6"	"16"	"16"	"4"	"12"	"16"	"12"	"9"
## "12"	[6707]	"12"	"12"	"12"	"12"	"12"	"12"	"6"	"6"	"4"	"9"	"16"	"16"	"9"
## "16"	[6721]	"16"	"16"	"6"	"12"	"16"	"12"	"4"	"16"	"16"	"9"	"9"	"12"	"4"

## "9"	[6735]	"16"	"4"	"12"	"12"	"12"	"9"	"6"	NA	"9"	"6"	"12"	"12"	"16"
## "16"	[6749]	"12"	"12"	"12"	"16"	"4"	"16"	"16"	"12"	"4"	"6"	"6"	"9"	"12"
## "16"	[6763]	"9"	"12"	"6"	"12"	"16"	"9"	"12"	"9"	"9"	"16"	"9"	"9"	NA
## "16"	[6777]	NA	"16"	"16"	"12"	"9"	"4"	"16"	"9"	"16"	"6"	"9"	"4"	"12"
## "12"	[6791]	"4"	"4"	"4"	"16"	"16"	"4"	"12"	"4"	"16"	"9"	"12"	NA	"9"
## "6"	[6805]	"9"	"12"	"16"	"16"	NA	"9"	"12"	"9"	"9"	"16"	"16"	"4"	"12"
## "12"	[6819]	"9"	"9"	"4"	"12"	"16"	"12"	"12"	"12"	"16"	"12"	"12"	"12"	"9"
## "16"	[6833]	NA	"12"	"4"	"4"	"12"	"9"	"4"	"16"	"9"	"4"	"12"	"12"	"9"
## "12"	[6847]	"9"	"16"	"12"	"16"	"16"	"12"	"12"	"12"	"12"	"6"	"12"	"12"	NA
## "16"	[6861]	"16"	"9"	"9"	"4"	"9"	"4"	"16"	"16"	"12"	"12"	"12"	"16"	"12"
## "12"	[6875]	"12"	"6"	"12"	NA	"16"	"4"	"12"	"9"	"12"	"16"	"12"	"9"	"6"
## "12"	[6889]	"16"	"16"	"12"	"16"	"12"	"4"	"16"	"16"	"12"	"12"	"12"	"12"	"12"
## "16"	[6903]	"12"	"12"	"4"	"12"	"12"	"9"	"12"	"6"	"12"	"12"	"16"	"12"	"9"
## "16"	[6917]	"12"	"16"	NA	"4"	"9"	"12"	"16"	"16"	"12"	"9"	"4"	"12"	"9"
## "6"	[6931]	"12"	"9"	"16"	"6"	"12"	"16"	"9"	"6"	"4"	"12"	"12"	"9"	"12"
## "12"	[6945]	"12"	"12"	"4"	"12"	"12"	"16"	NA	"4"	"9"	"12"	"9"	"12"	"16"
## "12"	[6959]	"12"	"16"	"4"	"16"	"9"	"4"	"12"	"16"	"16"	"16"	"4"	"12"	"16"
## "4"	[6973]	"12"	"12"	"6"	"16"	"12"	"16"	"9"	"16"	"12"	"9"	"16"	"12"	"9"
## "12"	[6987]	"12"	"16"	"12"	"16"	"12"	"12"	"12"	"6"	"12"	"16"	"16"	"9"	"9"
## "12"	[7001]	"6"	"6"	NA	"9"	"16"	"9"	"12"	"12"	"9"	"12"	"16"	"4"	"16"
## "16"	[7015]	NA	"9"	"6"	"16"	"12"	"6"	NA	"12"	"4"	"16"	"12"	"16"	"16"
## "6"	[7029]	"9"	"12"	"12"	"4"	"12"	"16"	"9"	"12"	"12"	"12"	"12"	"12"	"12"
## "12"	[7043]	"12"	"9"	"12"	NA	"12"	"9"	NA	"12"	"16"	"16"	"12"	"12"	"16"
## "6"	[7057]	"12"	"4"	"12"	"16"	"16"	"12"	"12"	"6"	"9"	"9"	"12"	"16"	NA
## "12"	[7071]	"12"	"4"	"12"	"4"	"16"	"16"	"12"	"12"	"4"	"12"	"12"	"9"	"6"

## "4"	[7085]	"16"	"12"	"16"	"4"	"12"	"12"	"12"	"12"	NA	"6"	"9"	"12"	NA
## "12"	[7099]	"12"	"12"	"4"	"4"	"16"	"16"	"16"	"4"	"16"	"6"	"12"	"9"	"4"
## "16"	[7113]	"12"	"12"	"12"	"12"	"9"	"16"	"12"	"12"	"16"	"16"	"4"	"4"	"16"
## "6"	[7127]	"9"	"12"	NA	"9"	"12"	"12"	"9"	"12"	NA	"16"	NA	"9"	"16"
## "4"	[7141]	"12"	"6"	"4"	"12"	"16"	"16"	"12"	"9"	"16"	"9"	"12"	"6"	"4"
## "12"	[7155]	"6"	"12"	"12"	"12"	"12"	"12"	NA	NA	"6"	"12"	"4"	"12"	"12"
## "16"	[7169]	"16"	"16"	"12"	"12"	"9"	"6"	"12"	"12"	"4"	"4"	"4"	"4"	"12"
## "9"	[7183]	NA	"16"	"9"	"4"	"12"	"9"	"16"	"12"	"4"	"16"	"16"	"9"	"12"
## "9"	[7197]	"12"	"12"	"6"	"6"	"16"	NA	"16"	"9"	"4"	"12"	"12"	"4"	"4"
## "12"	[7211]	"12"	"16"	"9"	"4"	"4"	"12"	"16"	"12"	"12"	"12"	"12"	"16"	"12"
## "9"	[7225]	"12"	"9"	"12"	"12"	"12"	"12"	"9"	"12"	"16"	"4"	"4"	"9"	NA
## "12"	[7239]	"12"	"16"	"6"	"9"	"12"	"9"	"9"	"4"	NA	"16"	"9"	"12"	"12"
## NA	[7253]	"16"	"12"	"12"	NA	"4"	"12"	"4"	"4"	"16"	"12"	"12"	"12"	"16"
## "16"	[7267]	"12"	"12"	"12"	"12"	"16"	"12"	"12"	"9"	"9"	"9"	"12"	"6"	"4"
## "9"	[7281]	"16"	NA	NA	"12"	"12"	"4"	"12"	"12"	"12"	"9"	"16"	"16"	"16"
## "6"	[7295]	"4"	"9"	"6"	"16"	"12"	"16"	"12"	"9"	"16"	"9"	"4"	"12"	"12"
## "9"	[7309]	"9"	"12"	"12"	NA	"12"	"16"	"16"	"16"	"12"	"9"	"9"	"12"	"4"
## "12"	[7323]	"12"	"12"	"16"	"9"	"12"	"12"	"12"	"9"	"16"	"4"	"12"	"4"	"12"
## "9"	[7337]	"12"	"12"	"6"	"16"	"12"	"9"	"12"	"16"	"12"	"12"	NA	"9"	"4"
## "9"	[7351]	"16"	"12"	"16"	"4"	"16"	NA	"16"	"4"	"4"	"12"	"9"	"9"	"12"
## "12"	[7365]	NA	"12"	"12"	"9"	NA	"4"	"16"	NA	"12"	"16"	"12"	"12"	"9"
## "12"	[7379]	"12"	"12"	"12"	"12"	"9"	"6"	"4"	"12"	"9"	"9"	"12"	"6"	"12"
## "16"	[7393]	"12"	"6"	"16"	"12"	"12"	"4"	"12"	"9"	"4"	"12"	"12"	"4"	"16"
## "9"	[7407]	"12"	"12"	"9"	NA	"4"	"9"	"9"	"9"	"4"	"9"	"16"	"6"	"12"
## "12"	[7421]	"4"	"4"	"12"	"16"	"12"	"9"	"16"	"9"	"9"	"12"	"12"	"4"	"9"

## "4"	[7435]	"9"	"12"	"16"	"12"	"16"	"12"	"9"	"4"	"4"	"9"	"16"	"9"	"4"
## "9"	[7449]	"12"	"6"	"16"	"9"	"12"	"12"	"9"	"4"	"12"	"9"	"12"	"9"	"12"
## "12"	[7463]	"16"	"12"	"9"	NA	"12"	"9"	"16"	"9"	"12"	"12"	"16"	"16"	"12"
## "12"	[7477]	"12"	"4"	"9"	"16"	"12"	"12"	"9"	"16"	"9"	"12"	"4"	"6"	"4"
## "12"	[7491]	"12"	NA	"12"	"12"	"16"	"12"	"9"	"9"	"4"	"12"	"12"	"12"	"6"
## "6"	[7505]	"12"	"16"	"16"	"9"	"16"	"16"	"9"	"4"	"16"	"12"	"12"	"16"	"12"
## "16"	[7519]	"6"	"4"	"12"	"16"	"16"	"6"	"9"	"4"	"4"	"9"	"4"	"9"	"9"
## "12"	[7533]	NA	"9"	"9"	"12"	"9"	"12"	"16"	"4"	"16"	"16"	"9"	"4"	"12"
## "12"	[7547]	"4"	"6"	NA	NA	"9"	"6"	"9"	"4"	NA	"4"	"9"	"12"	"12"
## "9"	[7561]	"12"	"12"	"6"	"4"	"4"	"9"	"12"	"9"	"16"	"9"	"16"	"16"	"9"
## "4"	[7575]	"16"	"12"	"12"	"4"	"9"	"12"	"9"	"12"	"16"	"12"	"9"	"16"	"16"
## "9"	[7589]	"9"	"4"	"16"	"9"	"16"	"9"	"16"	"12"	"12"	"4"	"16"	"12"	"9"
## "9"	[7603]	"12"	"6"	"4"	"12"	"9"	"12"	"9"	"4"	"4"	"6"	"12"	"9"	"12"
## "16"	[7617]	"4"	"4"	"12"	"9"	"12"	"6"	"12"	"9"	"12"	"12"	"9"	"6"	"12"
## "12"	[7631]	"12"	"4"	"6"	"16"	NA	"6"	NA	"12"	NA	NA	"16"	"16"	"4"
## "12"	[7645]	"16"	"12"	"12"	NA	"4"	"12"	"12"	"12"	"9"	"6"	"12"	"16"	"4"
## "16"	[7659]	"9"	"4"	"12"	"9"	"6"	"12"	"12"	"16"	"12"	"16"	"12"	NA	"12"
## "12"	[7673]	"16"	"9"	"12"	"6"	"4"	"4"	"9"	"12"	"16"	"16"	"16"	"9"	"16"
## "9"	[7687]	"12"	"16"	"16"	"16"	"12"	"16"	"12"	"12"	"16"	"16"	"12"	"12"	"16"
## "6"	[7701]	NA	"16"	"9"	"9"	"6"	"9"	NA	"12"	"16"	"4"	"12"	"12"	"4"
## NA	[7715]	"16"	"16"	"12"	"4"	"12"	"4"	"16"	"9"	"16"	"4"	"16"	"12"	"16"
## "4"	[7729]	"12"	"9"	"12"	"16"	"12"	"16"	"12"	"6"	"4"	"12"	"12"	"16"	"9"
## NA	[7743]	"16"	"9"	"12"	"12"	"16"	"16"	"4"	"9"	"4"	"9"	"12"	"9"	"12"
## NA	[7757]	"4"	"9"	"16"	"12"	"9"	"9"	"12"	"12"	"16"	"16"	"4"	"12"	"16"
## "4"	[7771]	"12"	"16"	"4"	"16"	"12"	"16"	"4"	"16"	"12"	"12"	"16"	"16"	"16"

## "9"	[7785]	"12"	"4"	"12"	"9"	"12"	"9"	"9"	"12"	"16"	"9"	"12"	"16"	"9"
## NA	[7799]	"16"	"9"	"16"	NA	"9"	"16"	"16"	"12"	"12"	"12"	"16"	"16"	"12"
## "12"	[7813]	"16"	"12"	"9"	"12"	"16"	"6"	"16"	"9"	"12"	"9"	"12"	"9"	"4"
## "9"	[7827]	"16"	"12"	"12"	"12"	"16"	NA	"9"	NA	"12"	NA	"12"	"12"	"12"
## "12"	[7841]	"9"	"12"	"12"	"16"	"9"	"9"	"9"	"16"	"9"	"16"	"16"	"4"	"12"
## "9"	[7855]	"12"	"16"	"6"	"12"	"12"	"12"	"12"	"16"	"9"	"16"	"9"	"9"	"16"
## "9"	[7869]	"9"	"9"	"9"	NA	"4"	"16"	"12"	"4"	"12"	"16"	NA	"9"	"16"
## "4"	[7883]	NA	"4"	"12"	"4"	"9"	"6"	"12"	"12"	"12"	"9"	"16"	"12"	"12"
## "12"	[7897]	"12"	"16"	"9"	"12"	"12"	NA	"16"	"4"	NA	"4"	"9"	"9"	"12"
## "12"	[7911]	"9"	"16"	"12"	"12"	"12"	"12"	"9"	"12"	"16"	"12"	"12"	"4"	"9"
## "6"	[7925]	"12"	"16"	"4"	"12"	"12"	"4"	NA	"12"	"9"	"12"	"9"	"9"	"9"
## "12"	[7939]	"12"	"12"	"12"	"16"	"16"	"12"	"4"	"9"	"9"	"12"	"6"	"16"	"16"
## "16"	[7953]	"16"	"12"	"16"	"6"	"12"	"4"	"4"	NA	"12"	"12"	"9"	"12"	"6"
## "6"	[7967]	"9"	"4"	"4"	"16"	"4"	"16"	"4"	"12"	"12"	"6"	"4"	"9"	"12"
## "4"	[7981]	"9"	"9"	"12"	"4"	"4"	"12"	"12"	"12"	"16"	"12"	"12"	"9"	"4"
## "4"	[7995]	"12"	"9"	"6"	"12"	"6"	"4"	"16"	"9"	"16"	"12"	"9"	"12"	"12"
## "12"	[8009]	"16"	"12"	"6"	"12"	"9"	"12"	"12"	"12"	"12"	"12"	"16"	"9"	"16"
## "12"	[8023]	"12"	"12"	"16"	"12"	"6"	"4"	"16"	"16"	"12"	"9"	"9"	"4"	"9"
## NA	[8037]	"6"	"6"	"6"	"12"	"9"	"9"	"12"	"16"	"9"	"9"	"12"	"16"	NA
## NA	[8051]	"9"	"16"	"16"	"4"	"12"	"9"	"6"	"12"	"4"	"12"	"9"	"6"	"12"
## "12"	[8065]	"9"	"9"	"12"	"4"	"12"	"16"	"12"	"4"	"6"	"12"	"12"	"12"	"6"
## "4"	[8079]	"16"	"16"	"12"	"12"	"6"	"12"	"16"	"12"	"4"	"16"	"12"	"12"	"12"
## "16"	[8093]	"16"	"16"	"12"	"12"	"12"	"16"	"4"	"16"	"16"	"16"	"6"	"12"	"12"
## "12"	[8107]	"9"	"9"	"12"	"9"	"12"	"9"	"12"	"6"	"12"	"9"	"9"	"4"	"9"
## "9"	[8121]	"16"	"12"	"0"	"12"	"12"	"16"	"9"	"16"	"16"	"16"	"9"	"12"	"12"

## "6"	[8135]	"16"	"12"	"12"	"16"	"6"	NA	"9"	NA	"16"	"6"	"12"	"12"	"16"
## "4"	[8149]	"9"	"16"	"12"	NA	"16"	"9"	"4"	"9"	"12"	"16"	"16"	"9"	"9"
## "16"	[8163]	"12"	"9"	"12"	"12"	"12"	"12"	"12"	"4"	"9"	"12"	"4"	"16"	"16"
## "12"	[8177]	"6"	"9"	"16"	"9"	"9"	"4"	"6"	NA	"6"	"16"	"12"	"16"	"12"
## "16"	[8191]	"9"	"12"	"4"	"12"	"16"	"9"	"12"	"12"	"4"	"9"	"4"	"16"	"9"
## "12"	[8205]	"12"	"12"	"12"	"4"	"12"	"6"	NA	"16"	"12"	"16"	"16"	NA	"12"
## "16"	[8219]	"16"	"12"	"12"	"9"	"4"	"4"	"16"	"9"	"16"	"6"	"12"	"12"	"12"
## "12"	[8233]	"9"	"12"	"9"	"16"	"4"	"9"	"9"	NA	"16"	"6"	"12"	"6"	"6"
## "16"	[8247]	"9"	"12"	"12"	"12"	"12"	"12"	"12"	"12"	"16"	"12"	"12"	"16"	"12"
## "9"	[8261]	NA	"4"	"12"	"16"	"12"	"9"	"16"	"12"	"16"	"16"	"16"	"12"	"12"
## "12"	[8275]	"12"	"12"	"16"	"12"	"9"	"12"	"6"	NA	"4"	"4"	"6"	NA	"16"
## "9"	[8289]	"12"	"12"	"12"	"12"	"9"	NA	NA	"4"	"16"	"12"	"12"	"9"	"12"
## "9"	[8303]	"16"	"12"	NA	"12"	"12"	"16"	"16"	"6"	"9"	"9"	"4"	"6"	"12"
## NA	[8317]	"16"	"16"	"12"	"12"	NA	"4"	"12"	"16"	"12"	"12"	"16"	"12"	"12"
## "9"	[8331]	NA	"12"	"12"	"12"	"12"	"9"	"12"	"4"	NA	"16"	"16"	"4"	"4"
## "12"	[8345]	"12"	"12"	NA	"9"	"9"	"12"	"16"	"12"	"12"	"12"	"9"	"6"	"16"
## "12"	[8359]	"12"	"16"	"16"	NA	"6"	"12"	"12"	"4"	"12"	"16"	"16"	"16"	"16"
## "12"	[8373]	"16"	"16"	"12"	"9"	"12"	"12"	"12"	"9"	"16"	"9"	"6"	"12"	"9"
## "12"	[8387]	"16"	"9"	"12"	NA	"12"	"12"	"12"	"12"	"12"	"9"	"12"	"12"	"12"
## "12"	[8401]	"12"	"16"	"16"	"12"	NA	"4"	"16"	"16"	"12"	"16"	"12"	"9"	"12"
## "12"	[8415]	"12"	"12"	"12"	"6"	"12"	"9"	"4"	"12"	"16"	"12"	"12"	"9"	"12"
## "12"	[8429]	"4"	"12"	"4"	"16"	"12"	"6"	"16"	"9"	"12"	"16"	"9"	"12"	NA
## "4"	[8443]	"12"	"16"	"6"	"12"	"9"	"12"	"9"	"9"	"12"	"12"	"12"	"12"	"4"
## "12"	[8457]	"16"	"4"	"16"	"16"	"12"	"4"	"16"	"12"	"4"	"9"	"12"	"12"	"9"
## "12"	[8471]	"12"	"12"	"6"	"16"	"16"	"12"	"4"	"16"	"12"	"9"	"16"	"12"	"12"

[8485] "12" "16" "9" "9" NA NA "6" "12" "6" "12" "12" "9" "12"
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"12"

## "9"	[8835]	"16"	"12"	"12"	"9"	"9"	"16"	"16"	"12"	"9"	"9"	"9"	"9"	"9"
## "12"	[8849]	"9"	"16"	"16"	"9"	"9"	"16"	"16"	"9"	"12"	"16"	"9"	"12"	"12"
## "16"	[8863]	"12"	"12"	"16"	"4"	"16"	"16"	"16"	"12"	"12"	"12"	"12"	"4"	"9"
## "16"	[8877]	"16"	"16"	"9"	"16"	"12"	"12"	"12"	"12"	"12"	"16"	"12"	"16"	"12"
## "12"	[8891]	"16"	"9"	"12"	"16"	"9"	"12"	"12"	"16"	"6"	"16"	"4"	"16"	"16"
## "12"	[8905]	"16"	"16"	"12"	"12"	"4"	"9"	"16"	"4"	"12"	"16"	"16"	"4"	"6"
## "12"	[8919]	"12"	"4"	"16"	"4"	"9"	"16"	"16"	"12"	"6"	"9"	"9"	"9"	"12"
## "9"	[8933]	"4"	"9"	"16"	"12"	"12"	"9"	"9"	"12"	"9"	"6"	"9"	"9"	"9"
## "16"	[8947]	"16"	"12"	"12"	"4"	"12"	"12"	"9"	"16"	"9"	"9"	"12"	"9"	"16"
## "9"	[8961]	"12"	"12"	"16"	"16"	"12"	"12"	"16"	"12"	"12"	"16"	"16"	"12"	"4"
## "9"	[8975]	"9"	"12"	"12"	"9"	"16"	"9"	"12"	"16"	"9"	"16"	"9"	"4"	"6"
## "9"	[8989]	"6"	"12"	"9"	"12"	"6"	"6"	NA	"12"	"9"	"9"	"9"	"12"	"4"
## "12"	[9003]	"9"	"16"	"12"	"12"	"12"	"16"	"16"	"9"	"9"	"12"	"9"	"4"	"16"
## "12"	[9017]	"12"	"12"	"9"	"9"	"12"	"4"	"12"	"16"	"12"	"9"	"4"	"4"	"9"
## "16"	[9031]	"16"	"12"	"16"	"12"	"12"	"12"	"12"	"16"	"12"	"16"	"9"	"12"	"12"
## NA	[9045]	"16"	"12"	"16"	"12"	"9"	"12"	"12"	"6"	"4"	"4"	NA	"9"	"12"
## "6"	[9059]	"9"	"9"	"9"	"9"	"4"	"9"	"6"	"9"	"6"	"12"	"4"	"4"	"4"
## "9"	[9073]	"4"	"16"	"4"	"4"	"6"	"12"	"12"	"9"	"9"	"12"	"12"	"9"	"4"
## "16"	[9087]	"4"	"16"	"9"	"4"	"12"	"4"	"4"	"9"	"16"	"9"	"4"	"12"	"9"
## "12"	[9101]	"9"	"12"	"12"	"9"	"12"	"16"	"9"	"16"	"12"	"4"	"16"	"12"	"12"
## "9"	[9115]	"16"	"16"	"16"	"16"	"6"	"16"	"12"	"12"	"12"	"12"	"4"	"16"	"12"
## "12"	[9129]	"12"	"16"	"12"	"9"	"6"	"9"	"12"	"9"	"4"	"16"	"9"	"12"	"16"
## "16"	[9143]	"12"	"16"	"12"	"12"	"9"	"9"	"6"	"9"	"12"	"9"	"9"	NA	"9"
## "12"	[9157]	"12"	"12"	NA	NA	"9"	"16"	"9"	"9"	"16"	"12"	"16"	"6"	"9"
## "9"	[9171]	NA	"6"	"6"	"12"	"16"	"16"	"12"	"12"	"16"	"16"	"12"	"9"	"12"

#	[9185]	"12"	"16"	"12"	"12"	"16"	"12"	"9"	"12"	"9"	"4"	"16"	"6"	"6"
##	[9199]	"9"	"6"	"16"	"12"	"16"	"16"	"16"	"16"	"12"	"9"	"6"	"12"	"9"
##	[9213]	"16"	"9"	"12"	"12"	"12"	"9"	"16"	NA	"6"	"9"	"9"	"9"	"9"
##	[9227]	"9"	"16"	"16"	"4"	"16"	"16"	"16"	"4"	"16"	"9"	"12"	"9"	"12"
##	[9241]	"9"	"16"	"16"	"16"	"12"	"9"	"12"	"16"	"16"	"9"	"16"	"12"	"12"
##	[9255]	"12"	"12"	"16"	"6"	"12"	"12"	"12"	"9"	"12"	"9"	"9"	"16"	"16"
##	[9269]	"12"	"16"	"12"	"16"	"4"	"12"	"16"	"16"	"12"	"16"	"12"	"6"	"12"
##	[9283]	"12"	"12"	"12"	"16"	"12"	"9"	NA	"12"	"12"	"16"	"12"	"6"	"6"
##	[9297]	"12"	"9"	NA	"12"	NA	"16"	"16"	"9"	"16"	"9"	"9"	"12"	"4"
##	[9311]	"16"	"9"	"9"	"12"	"16"	"9"	"16"	"9"	"12"	"9"	"12"	"16"	"6"
##	[9325]	"9"	"12"	"16"	"9"	"16"	"6"	"16"	"12"	"6"	"12"	"16"	"6"	"12"
##	[9339]	"4"	"6"	"12"	"12"	"16"	"12"	"6"	"16"	"12"	"12"	"16"	"6"	"6"
##	[9353]	"12"	"9"	"12"	"16"	"9"	"6"	"6"	"6"	"12"	"16"	"12"	"9"	"16"
##	[9367]	"12"	"9"	"16"	"9"	"12"	"12"	"12"	"9"	"12"	"16"	"6"	"12"	"9"
##	[9381]	"9"	"6"	"12"	"12"	"9"	"12"	"9"	"4"	"12"	NA	"16"	"12"	"12"
##	[9395]	"4"	"12"	"4"	"12"	"9"	"12"	"12"	NA	"16"	"9"	"12"	"12"	"9"
##	[9409]	"12"	"9"	"12"	"12"	"12"	"4"	"16"	"16"	"12"	"12"	"12"	"12"	"9"
##	[9423]	"9"	"12"	"12"	"12"	"12"	"9"	"6"	"9"	"4"	"6"	"4"	"16"	"9"
##	[9437]	"12"	"16"	"9"	"16"	"9"	"12"	"9"	"9"	"9"	"9"	"16"	"4"	"4"
##	[9451]	"6"	"16"	"6"	"4"	"16"	"16"	"12"	"16"	"12"	"16"	"12"	"9"	"0"
##	[9465]	"9"	"16"	"4"	"9"	"9"	"9"	"16"	"6"	"9"	"9"	"4"	"9"	"16"
##	[9479]	"12"	"12"	"4"	"12"	"9"	"4"	"6"	"12"	"4"	"16"	"0"	"12"	"12"
##	[9493]	"16"	"12"	NA	"6"	"4"	"12"	"12"	"16"	"12"	"16"	"12"	"6"	"16"
##	[9507]	NA	"4"	"12"	"12"	"12"	"9"	"9"	"6"	NA	"16"	"4"	"12"	"12"
##	[9521]	"16"	"16"	"16"	"16"	"12"	"12"	"12"	"4"	"6"	"12"	"16"	"4"	"9"

##	[9535]	"6"	"4"	"12"	"4"	"9"	"12"	"9"	"12"	"9"	"6"	"12"	"16"	"16"	"9"
##	[9549]	"12"	"12"	NA	NA	"12"	"12"	"12"	"12"	"4"	"12"	"16"	"12"	"16"	"12"
##	[9563]	"12"	"4"	"16"	"16"	NA	"16"	NA	"12"	"12"	"4"	"16"	"12"	"6"	"9"
##	[9577]	"4"	"6"	"4"	"16"	"6"	"16"	"16"	"9"	"6"	"12"	"12"	"12"	"12"	"9"
##	[9591]	"9"	"9"	"4"	"6"	"16"	"6"	"6"	"16"	"12"	"9"	"4"	"16"	"9"	"9"
##	[9605]	"12"	"9"	"12"	"12"	"16"	"9"	"16"	"12"	"16"	"9"	"4"	"4"	"12"	"12"
##	[9619]	"16"	"4"	"16"	"9"	"4"	"12"	"12"	"4"	NA	"12"	"9"	"12"	"16"	"6"
##	[9633]	"12"	"16"	"12"	"4"	"12"	"16"	"9"	"12"	"4"	"16"	"12"	"12"	"12"	"4"
##	[9647]	"12"	"16"	"12"	"9"	"9"	"12"	"9"	"9"	"4"	"6"	"9"	"6"	"6"	NA
##	[9661]	NA	"12"	"12"	"6"	"12"	NA	"9"	"9"	"12"	"9"	"16"	"12"	"12"	"12"
##	[9675]	"6"	NA	"9"	"12"	"12"	"12"	NA	"6"	"9"	NA	"9"	"12"	"12"	"12"
##	[9689]	"9"	"16"	"12"	"12"	"16"	"12"	"12"	"12"	"16"	"12"	"9"	"16"	"4"	"12"
##	[9703]	"4"	"12"	"9"	"16"	"16"	"12"	"12"	"12"	"9"	"4"	"6"	"9"	"9"	"16"
##	[9717]	"12"	"9"	"16"	"9"	"4"	"9"	"4"	"16"	"4"	"12"	"12"	"9"	"12"	"16"
##	[9731]	"12"	"16"	"12"	"12"	"12"	"12"	"12"	"12"	"12"	"12"	"9"	"9"	"9"	"6"
##	[9745]	"12"	"9"	"9"	"6"	"12"	"12"	"9"	"12"	"12"	"4"	"16"	"12"	"9"	"16"
##	[9759]	NA	"12"	"6"	"9"	"12"	"4"	"12"	"6"	"4"	"12"	"6"	"16"	"12"	"9"
##	[9773]	"4"	"12"	"9"	NA	"16"	"16"	"9"	"12"	"12"	"16"	"16"	"16"	"12"	"6"
##	[9787]	"12"	"4"	"9"	"16"	"9"	"9"	"12"	"12"	"16"	"12"	"6"	"9"	"12"	"9"
##	[9801]	"12"	"9"	"16"	"9"	"6"	"16"	"9"	"12"	"16"	"6"	"9"	"12"	"12"	"6"
##	[9815]	"4"	"12"	"16"	"9"	"9"	"4"	"9"	"16"	NA	"9"	"12"	"16"	"12"	"16"
##	[9829]	"9"	"9"	"9"	"9"	"16"	"16"	"16"	"16"	"16"	"6"	"16"	"9"	"16"	"9"
##	[9843]	"9"	"9"	"9"	"12"	"9"	"16"	"9"	"12"	"16"	"9"	"16"	"16"	"9"	"16"
##	[9857]	"12"	"6"	"9"	"9"	"4"	NA	"16"	"12"	"16"	NA	"9"	"16"	"9"	"4"
##	[9871]	"4"	NA	"16"	"12"	"12"	"12"	"4"	"12"	"12"	"16"	"9"	"16"	"16"	"9"

## [9885]	"9"	"4"	"16"	"9"	"12"	"12"	"16"	"12"	"16"	"16"	"16"	"12"	"9"
## [9899]	"9"	"16"	"9"	"16"	"12"	"16"	"16"	"12"	"16"	"16"	"12"	"4"	"12"
## [9913]	"4"	"16"	"12"	"9"	"12"	"12"	"4"	"12"	"9"	NA	"16"	"6"	"4"
## [9927]	"16"	"12"	"4"	"4"	"16"	"4"	NA	"16"	"4"	"9"	"12"	"12"	"12"
## [9941]	"16"	"9"	"16"	NA	"6"	"16"	"9"	"6"	"9"	"12"	"6"	"9"	"12"
## [9955]	"9"	"6"	"4"	NA	"9"	"12"	"12"	"6"	"12"	"9"	"4"	NA	"12"
## [9969]	"16"	"16"	"9"	NA	"12"	"4"	"16"	"16"	"16"	"12"	"16"	"12"	"6"
## [9983]	"12"	"9"	"12"	NA	"9"	"16"	"12"	"16"	"4"	"9"	"12"	"16"	"12"
## [9997]	"12"	"16"	"6"	"9"	"16"	"12"	"12"	"4"	"12"	"12"	"12"	"12"	"9"
## [10011]	"12"	"12"	"12"	"9"	"16"	"6"	"16"	"12"	"9"	"16"	"16"	"12"	"12"
## [10025]	"12"	"16"	"9"	"16"	"9"	"9"	"12"	"16"	"12"	"16"	"16"	"9"	"9"
## [10039]	"12"	"9"	"9"	"4"	"12"	"16"	"16"	"12"	"12"	"16"	"12"	"9"	"9"
## [10053]	"4"	"9"	"4"	"12"	"6"	"12"	"4"	"12"	"12"	"12"	"12"	"12"	"16"
## [10067]	NA	"12"	"9"	"9"	"9"	"16"	"12"	"16"	"16"	"9"	"12"	"16"	"16"
## [10081]	"16"	"12"	"4"	"9"	"16"	"16"	"16"	"9"	"9"	"12"	"16"	"9"	"12"
## [10095]	"12"	"12"	"12"	"4"	"12"	"9"	"9"	"9"	"9"	"4"	"4"	"9"	"6"
## [10109]	"16"	"12"	"12"	"4"	"4"	"12"	"9"	"16"	"9"	"4"	"9"	"16"	"16"
## [10123]	"16"	"12"	"9"	"16"	"16"	"12"	"9"	"12"	"16"	"9"	"16"	"12"	"9"
## [10137]	"6"	"6"	"16"	"16"	"12"	"9"	"12"	"16"	"12"	"12"	"9"	"4"	"12"
## [10151]	"9"	"16"	"12"	"12"	"9"	"4"	"4"	"12"	"16"	"9"	"16"	"9"	"12"
## [10165]	"12"	NA	"9"	"4"	"12"	NA	NA	"12"	"4"	"9"	"12"	"16"	"12"
## [10179]	"16"	NA	"16"	"12"	"12"	"12"	NA	"9"	"6"	"6"	"9"	"9"	"16"
## [10193]	"16"	"4"	"9"	"16"	"9"	"9"	"16"	"16"	"9"	"12"	"9"	"9"	"12"
## [10207]	"16"	"4"	"16"	"9"	"12"	"4"	"9"	NA	"9"	"9"	"12"	"12"	"4"
## [10221]	"9"	"6"	"12"	"12"	"16"	"9"	"12"	"12"	"9"	"9"	"12"	"4"	"9"

[10235] "16" "12" "12" "12" "12" "9" "12" "16" "16" "12" "16" "16" "9"
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## [18369]	"12"	"12"	"12"	"9"	"9"	NA	"12"	"12"	"12"	NA	"6"	"16"	NA	"9"
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## [18411]	"12"	"12"	"16"	"16"	"12"	"9"	NA	NA	"9"	"4"	"6"	"12"	"4"	"12"
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## [19517]	"16"	"12"	"12"	"9"	NA	"16"	"12"	"16"	"12"	"16"	"16"	"12"	"4"	"12"
## [19531]	"9"	"12"	"16"	"9"	"12"	"9"	"9"	"16"	"4"	"16"	"16"	"12"	"9"	"4"
## [19545]	"16"	"12"	"9"	"9"	"9"	"16"	"4"	"4"	"9"	"9"	"16"	"12"	"12"	"16"
## [19559]	"4"	"12"	"12"	"6"	"12"	"12"	"4"	"16"	"16"	"16"	"16"	"4"	NA	"16"
## [19573]	"4"	NA	"16"	"16"	"12"	"6"	"16"	"16"	"4"	"4"	"12"	"4"	NA	"4"
## [19587]	"12"	"4"	"16"	"16"	"12"	"4"	NA	"4"	"16"	"16"	"16"	"16"	"16"	"16"
## [19601]	"16"	"16"	"16"	"16"	"12"	"16"	"4"	"16"	"12"	"12"	"12"	"12"	NA	"9"
## [19615]	"12"	"16"	NA	"16"	NA	"4"	"12"	"4"	"16"	"4"	"16"	"16"	"6"	"16"
## [19629]	"16"	"16"	"12"	"16"	"9"	"9"	"12"	"12"	"4"	"9"	"16"	"16"	"12"	"12"
## [19643]	"16"	"16"	"12"	"16"	"4"	"16"	"16"	"16"	"16"	"16"	"16"	"12"	"12"	"16"
## [19657]	"4"	"16"	"16"	"12"	"4"	"16"	"6"	"4"	"16"	"16"	"12"	"16"	"12"	"12"
## [19671]	"12"	"12"	"16"	"16"	"16"	"9"	"12"	"4"	"12"	"16"	"16"	"16"	"16"	"12"

## [19685]	"16"	"12"	"12"	"12"	"16"	"6"	"16"	"12"	"16"	"16"	"16"	"12"	"12"	"4"
## [19699]	"12"	"16"	"16"	"12"	"12"	"16"	"9"	"12"	"16"	"12"	"12"	"16"	"16"	"16"
## [19713]	"16"	"16"	"16"	"12"	"12"	"16"	"16"	"4"	"12"	"16"	"12"	"12"	"16"	"12"
## [19727]	"16"	"16"	"12"	"12"	"16"	"16"	"12"	"12"	"12"	"12"	NA	"16"	"12"	"12"
## [19741]	"12"	"9"	"16"	"12"	"12"	"12"	"16"	"16"	"16"	"16"	"16"	"16"	"16"	"16"
## [19755]	"16"	"16"	"12"	"16"	"12"	"16"	"16"	"4"	"16"	"12"	"16"	"16"	"12"	"12"
## [19769]	"12"	"6"	"12"	"9"	"16"	"12"	"16"	"12"	"16"	"16"	"12"	"12"	"12"	"12"
## [19783]	"9"	"12"	"9"	"16"	"4"	"16"	"16"	"4"	"16"	"16"	"12"	"12"	"12"	"12"
## [19797]	"16"	"16"	"16"	"16"	"16"	"12"	"4"	"16"	"12"	NA	"12"	"16"	"4"	"16"
## [19811]	"16"	"16"	"4"	"12"	NA	"12"	"16"	"12"	"12"	"16"	"9"	"16"	"16"	"16"
## [19825]	"16"	"6"	"9"	"4"	"12"	"12"	"12"	"9"	"12"	"4"	"16"	"16"	"16"	"16"
## [19839]	"12"	"12"	"16"	"12"	"12"	"16"	"12"	"16"	NA	"16"	"16"	"12"	"16"	"16"
## [19853]	"12"	"16"	"4"	"12"	"16"	"9"	"9"	"12"	"12"	"12"	"12"	"16"	"6"	"16"
## [19867]	"16"	"16"	"16"	"16"	"16"	"9"	NA	"12"	"6"	"12"	"16"	"6"	"6"	"16"
## [19881]	"12"	"12"	"6"	"6"	"12"	"12"	"16"	NA	"16"	"16"	"16"	"16"	NA	"12"
## [19895]	"12"	"16"	"16"	"12"	"12"	"6"	"9"	"4"	"12"	"12"	"12"	"12"	"12"	"9"
## [19909]	"16"	"9"	"16"	"16"	"12"	"16"	"12"	"16"	"9"	"16"	"12"	"12"	"12"	"16"
## [19923]	"12"	NA	"16"	"12"	"16"	"4"	"16"	"6"	"4"	"9"	"12"	"12"	"4"	"16"
## [19937]	"16"	"4"	"16"	"16"	"16"	"12"	"9"	"9"	"16"	"12"	"12"	"12"	"9"	"12"
## [19951]	"16"	"12"	"16"	"4"	"16"	"12"	"6"	"12"	"16"	"12"	"12"	"16"	"9"	"6"
## [19965]	"12"	NA	"12"	"6"	"12"	"12"	"16"	"12"	"16"	"12"	"9"	"12"	"16"	"12"
## [19979]	"16"	"12"	"12"	"12"	"12"	"16"	"12"	"12"	"12"	"12"	"9"	"12"	"12"	"12"
## [19993]	"9"	"12"	"12"	"9"	"16"	"12"	NA	"16"	"16"	"4"	"12"	"16"	"12"	"12"
## [20007]	NA	"16"	"12"	"6"	"9"	"9"	"12"	"9"	"12"	"4"	"9"	"12"	"16"	"12"
## [20021]	"6"	"9"	"9"	"9"	"4"	"12"	"9"	"9"	"9"	"9"	"9"	"6"	"12"	"16"

## [20035]	"12"	"9"	"12"	"12"	"12"	"9"	"9"	"12"	"12"	"4"	"4"	"12"	"12"	"9"
## [20049]	"12"	"9"	"4"	"9"	"12"	"6"	"12"	"16"	"12"	"6"	"12"	"12"	"9"	"12"
## [20063]	"16"	"12"	"4"	"12"	NA	"4"	"12"	"9"	"9"	"6"	"6"	NA	"12"	"9"
## [20077]	NA	"16"	"9"	"16"	"9"	NA	"9"	"12"	"6"	"9"	"12"	"9"	"4"	"12"
## [20091]	"12"	"4"	"16"	"9"	"16"	"12"	"4"	"6"	"12"	"12"	"12"	"4"	"12"	"16"
## [20105]	"9"	"12"	"12"	"12"	"12"	"12"	"9"	"12"	"16"	NA	"12"	"12"	"12"	"12"
## [20119]	NA	"12"	"12"	"9"	"12"	NA	"12"	"6"	"4"	"4"	"4"	"6"	"12"	"12"
## [20133]	"16"	"16"	"16"	"9"	"4"	NA	"6"	"16"	"12"	"16"	"12"	"6"	"16"	"4"
## [20147]	"12"	"4"	"12"	"12"	"12"	"9"	"9"	"6"	"9"	"9"	"9"	"16"	"12"	"9"
## [20161]	"12"	"9"	"9"	"4"	"9"	"16"	"6"	"16"	"16"	"12"	"16"	"12"	"6"	"12"
## [20175]	"4"	"16"	"4"	"16"	"12"	"9"	"4"	"12"	"12"	"6"	"9"	"16"	"16"	"16"
## [20189]	"12"	"16"	"12"	"12"	"9"	"9"	"4"	"4"	"9"	"6"	"16"	"9"	"16"	"16"
## [20203]	"12"	"4"	"12"	"16"	"16"	"12"	"12"	"12"	"12"	"9"	"12"	"9"	"12"	"12"
## [20217]	"12"	"6"	"16"	"6"	"4"	"4"	"16"	"12"	"9"	"4"	"16"	"9"	"6"	"9"
## [20231]	"12"	"16"	"12"	"16"	"9"	"12"	"9"	"9"	"12"	"6"	"16"	"12"	"9"	"16"
## [20245]	"12"	"4"	"9"	"9"	"12"	"12"	"12"	"12"	"9"	"12"	"16"	"6"	"12"	"16"
## [20259]	"16"	"12"	"9"	NA	"12"	"16"	"12"	"6"	"12"	"16"	"16"	"16"	"9"	"9"
## [20273]	"16"	"9"	"16"	"12"	"12"	"12"	"9"	"12"	"12"	"6"	"16"	"12"	"9"	"6"
## [20287]	"9"	"12"	"12"	"16"	"4"	"6"	"16"	"16"	"6"	"9"	"6"	"12"	"12"	"9"
## [20301]	"12"	"12"	"6"	"9"	"9"	"16"	"12"	"12"	"16"	"9"	"4"	"9"	"9"	"9"
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## [20329]	"9"	"12"	"9"	"12"	"6"	"12"	"16"	"4"	"9"	"16"	"9"	"16"	"12"	"12"
## [20343]	"16"	"6"	"12"	"12"	"4"	"4"	"12"	"4"	"9"	"4"	"12"	"9"	"12"	"12"
## [20357]	"16"	"16"	"12"	"16"	"9"	"9"	"6"	"4"	"9"	"12"	"12"	"12"	"12"	"12"
## [20371]	"12"	"12"	"9"	NA	"12"	"12"	"9"	"9"	"12"	"4"	"4"	"16"	"16"	"6"

## [20735]	"12"	"9"	"9"	"9"	"16"	"12"	"12"	"16"	"16"	"12"	"9"	"12"	"12"	"4"
## [20749]	"16"	"12"	"16"	"4"	"6"	"9"	"12"	"9"	"12"	"16"	"12"	"9"	"12"	"6"
## [20763]	"9"	"9"	"9"	"9"	"12"	"6"	"9"	"9"	"16"	"12"	"12"	"4"	"12"	"12"
## [20777]	"12"	"9"	NA	"12"	"16"	"16"	"12"	"12"	"12"	"16"	"12"	"16"	"16"	"4"
## [20791]	"4"	NA	"9"	"12"	"12"	"16"	"4"	"16"	"9"	"16"	"16"	"12"	"16"	"16"
## [20805]	"4"	"9"	"12"	"16"	"9"	"9"	"12"	"12"	"4"	"9"	"9"	"9"	"6"	"16"
## [20819]	"6"	"9"	"4"	"16"	"12"	"12"	"4"	"4"	"4"	"12"	"6"	"16"	"12"	"12"
## [20833]	"6"	"6"	"6"	"16"	"9"	"9"	"9"	"16"	"4"	"6"	"12"	"9"	"9"	"9"
## [20847]	"9"	"12"	"12"	"12"	"12"	"9"	"4"	"9"	"9"	"12"	"16"	"12"	"9"	"12"
## [20861]	"16"	"6"	"12"	"12"	"9"	"9"	"6"	"16"	"9"	"12"	"12"	"12"	"9"	NA
## [20875]	"12"	"9"	"9"	"9"	"12"	"6"	"12"	NA	"12"	"9"	"16"	"9"	"16"	"16"
## [20889]	"16"	"12"	"9"	"16"	"9"	"16"	"9"	"9"	"12"	"6"	"12"	NA	"12"	"6"
## [20903]	"16"	"4"	"12"	"4"	"16"	"12"	"4"	"9"	"6"	"6"	"16"	"9"	"12"	"12"
## [20917]	"12"	NA	"16"	"9"	"12"	"12"	"16"	"12"	"16"	"9"	NA	"4"	"12"	"12"
## [20931]	"16"	"4"	"12"	"4"	"6"	"16"	NA	"6"	"16"	"12"	"9"	"12"	"16"	"4"
## [20945]	"12"	"12"	"16"	NA	"16"	"9"	"12"	"16"	"4"	"12"	"12"	"16"	"16"	"12"
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## [20987]	"12"	"9"	"16"	"9"	"16"	"12"	"9"	"16"	"12"	"4"	"4"	"9"	"9"	"12"
## [21001]	"12"	"9"	"16"	"12"	"12"	"9"	"9"	"16"	NA	"16"	"12"	"12"	"12"	"9"
## [21015]	"12"	"16"	"6"	"6"	"16"	"12"	"16"	"4"	"12"	"12"	"9"	"9"	"6"	"16"
## [21029]	"16"	"12"	"12"	"16"	"9"	"12"	"16"	"12"	"6"	"12"	"4"	"12"	"6"	"16"
## [21043]	"16"	"9"	"16"	"16"	"16"	"16"	"9"	"4"	"16"	"16"	"9"	"12"	"12"	"12"
## [21057]	"12"	"9"	"12"	"12"	"6"	"9"	"16"	"9"	"12"	"16"	"16"	"12"	"16"	"9"
## [21071]	"16"	"9"	"9"	"12"	"4"	"4"	"9"	"4"	"16"	"12"	"12"	"16"	"16"	"12"

## [21085]	"12"	"9"	"9"	"9"	"9"	"12"	"4"	"12"	"12"	"4"	"6"	"16"	"6"	"12"
## [21099]	"16"	"9"	"16"	NA	"6"	"16"	"12"	"12"	"6"	"12"	"12"	"9"	"16"	"12"
## [21113]	"16"	"4"	"9"	"12"	"9"	"12"	"12"	"16"	"12"	"9"	"16"	"12"	"12"	"12"
## [21127]	"16"	"9"	"9"	"6"	"12"	"12"	"16"	"16"	"12"	"4"	"4"	"4"	"4"	"12"
## [21141]	"9"	"12"	"12"	"12"	"9"	"16"	"12"	"12"	"9"	"6"	"9"	"9"	"12"	"12"
## [21155]	"12"	"16"	"16"	"16"	"9"	"4"	"16"	"6"	"12"	"12"	"12"	"9"	"9"	"16"
## [21169]	"12"	"9"	"12"	"6"	"9"	"16"	"6"	"12"	"12"	"12"	"4"	"12"	"16"	"12"
## [21183]	"9"	"9"	"12"	"12"	"12"	"12"	"12"	"9"	"12"	"16"	"9"	"16"	"9"	"12"
## [21197]	"16"	"12"	"9"	"9"	"4"	"16"	"12"	"6"	"9"	"12"	"12"	"16"	"16"	"16"
## [21211]	"12"	"16"	"4"	"6"	"16"	"6"	"16"	"16"	"12"	"4"	"12"	"16"	"12"	"16"
## [21225]	"16"	"4"	"12"	"9"	"12"	"9"	"12"	"9"	"12"	"9"	"9"	"4"	"4"	"9"
## [21239]	"9"	"12"	"12"	"9"	"9"	"9"	"9"	"16"	"6"	"16"	"12"	NA	"12"	"12"
## [21253]	"9"	"16"	"12"	"12"	"6"	"9"	"6"	"16"	"9"	"6"	"12"	"6"	"12"	"9"
## [21267]	"9"	"12"	"9"	"12"	"4"	"16"	"9"	"16"	"12"	"12"	"16"	"12"	"16"	"16"
## [21281]	"16"	"9"	"9"	"9"	"9"	"9"	"16"	"12"	"9"	"9"	"12"	"9"	"9"	NA
## [21295]	"9"	"16"	"4"	"4"	"6"	"12"	"12"	"12"	"9"	"12"	"12"	"12"	"12"	"6"
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## [21323]	"16"	"16"	"4"	"12"	"16"	"12"	"12"	"6"	"12"	"9"	"6"	"16"	"12"	"12"
## [21337]	"12"	"16"	"9"	"4"	NA	"12"	"12"	"12"	"12"	"16"	"9"	"9"	"4"	"4"
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## [21365]	"16"	"16"	"9"	"16"	"9"	"9"	"6"	"12"	"12"	"16"	"12"	"9"	"12"	"4"
## [21379]	"12"	"12"	"16"	"12"	"12"	"12"	"6"	"9"	"6"	"12"	"9"	"6"	"9"	"16"
## [21393]	"16"	"12"	"16"	"9"	"12"	"9"	"16"	"12"	"16"	"16"	"12"	"16"	"16"	"9"
## [21407]	"16"	"12"	"12"	"12"	"12"	"9"	"9"	"12"	"16"	"9"	"12"	"16"	"6"	"12"
## [21421]	"12"	"12"	"12"	"4"	"9"	"12"	"4"	"6"	"9"	"4"	"4"	"9"	"16"	"9"

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## [25985]	"9"	"12"	"12"	"16"	"12"	"12"	"16"	"6"	"6"	"12"	"12"	"12"	"12"
## [25999]	"16"	"12"	"16"	"16"	"16"	"12"	"16"	"16"	"12"	"16"	"16"	"12"	"16"
## [26013]	"16"	"16"	"16"	"4"	"16"	"12"	"16"	"16"	"16"	"16"	"4"	"16"	"16"
## [26027]	"16"	"16"	"12"	"16"	"12"	"12"	"4"	"12"	"12"	"16"	"12"	"9"	"12"
## [26041]	"16"	"12"	"12"	"12"	"12"	"12"	NA	"16"	"16"	"4"	"12"	"16"	"12"
## [26055]	"16"	"16"	"16"	"16"	"12"	"12"	"9"	"12"	"16"	"12"	"4"	"16"	"12"
## [26069]	"12"	"16"	"16"	"4"	"9"	"12"	"12"	"16"	"12"	"16"	"6"	"16"	"12"
## [26083]	"16"	"12"	"16"	"12"	"16"	"16"	"16"	"16"	"16"	"4"	"16"	"12"	"12"
## [26097]	"12"	"16"	"16"	"4"	"16"	"16"	"4"	"12"	"12"	"12"	"4"	"12"	"9"
## [26111]	"12"	"6"	"12"	"16"	"12"	"16"	"16"	"16"	"16"	"4"	"12"	"9"	"12"
## [26125]	"16"	"16"	"12"	"12"	"12"	"12"	"12"	"6"	"12"	"16"	"16"	"16"	"12"
## [26139]	"16"	"16"	"12"	"16"	"16"	"16"	"16"	"12"	"16"	"9"	"16"	"12"	"12"
## [26153]	"12"	"12"	NA	NA	NA	"16"	"12"	"12"	NA	"4"	"4"	"16"	"16"
## [26167]	"16"	"9"	"4"	"16"	"16"	NA	"12"	NA	NA	NA	"16"	"12"	"12"
## [26181]	"4"	"12"	NA	"16"	"16"	"12"	"16"	"4"	"12"	"16"	"12"	"12"	"16"
## [26195]	"16"	"12"	"12"	"4"	"6"	"12"	"12"	"12"	"12"	"9"	"9"	"16"	"12"
## [26209]	NA	"16"	"9"	"9"	"9"	"12"	"12"	"12"	NA	"16"	"16"	"9"	"4"
## [26223]	"9"	"16"	"16"	"16"	"12"	"16"	"12"	NA	"12"	"16"	"16"	"12"	"16"
## [26237]	"12"	"12"	"4"	"4"	"4"	"12"	"4"	"16"	"16"	"12"	"9"	"16"	NA
## [26251]	"12"	"4"	"4"	"6"	"6"	"16"	"12"	"12"	"16"	"16"	"16"	"16"	"16"
## [26265]	"16"	"4"	"16"	"16"	"16"	"12"	"16"	"16"	"16"	"12"	"16"	"16"	"6"
## [26279]	"16"	NA	"12"	"16"	"16"	NA	"12"	"12"	"12"	"12"	"4"	"12"	"4"
## [26293]	"4"	"12"	"12"	"12"	"16"	"12"	"12"	NA	"12"	"16"	"6"	"16"	"16"
## [26307]	"12"	"16"	"16"	"12"	"16"	"16"	"16"	"9"	"12"	"16"	"16"	"16"	"4"
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## [26867] "16" "16" "12" "16" "16" "4" "12" "12"
```

4)Standardize the field age. Print out a list of the first 10 records, including the variables age and age_z.

Answer:

```
bank_train$age_z <- scale(x = bank_train$age)
bank_train[1:10,c(1,24)]
```

```
##      age      age_z
## 1    56  1.53959650
## 2    57  1.63574771
## 3    41  0.09732832
## 4    25 -1.44109106
## 5    29 -1.05648621
## 6    57  1.63574771
## 7    35 -0.47957894
## 8    39 -0.09497410
## 9    30 -0.96033500
## 10   55  1.44344529
```

```
sapply(list(bank_train$age, bank_train$age_z), head, n = 10)
```

```
##      [,1]      [,2]
## [1,]    56  1.53959650
```

```
## [2,] 57 1.63574771
## [3,] 41 0.09732832
## [4,] 25 -1.44109106
## [5,] 29 -1.05648621
## [6,] 57 1.63574771
## [7,] 35 -0.47957894
## [8,] 39 -0.09497410
## [9,] 30 -0.96033500
## [10,] 55 1.44344529
```

5) Obtain a listing of all records that are outliers according to the field `age_z`. Print out a listing of the 10 largest `age_z` values.

Answer:

```
summary(bank_train$age_z)
```

```
##      V1
## Min.   :-2.2103
## 1st Qu.: -0.7680
## Median :-0.1911
## Mean    : 0.0000
## 3rd Qu.: 0.6742
## Max.    : 4.9049
```

```
bank_outliers <- bank_train[ which(bank_train$age_z < -2.2103 |
bank_train$age_z > 4.9049 ), ]
bank_train_sort <- bank_train[ order(- bank_train$age_z), ]
head(bank_train_sort, 10)
```

```
##      age  job  marital  education default housing loan  contact
## 24834  91 retired married university.degree    no    yes yes cellular
## 24841  91 retired married university.degree    no    no  yes cellular
## 26016  89 retired divorced    basic.4y    no    no   no cellular
## 26521  89 retired divorced    basic.4y    no    yes   no cellular
## 18180  88 retired divorced    basic.4y    no    yes   no cellular
## 18182  88 retired divorced    basic.4y    no    no   no cellular
## 18184  88 retired divorced    basic.4y    no    yes  yes cellular
## 18187  88 retired divorced    basic.4y    no    yes   no cellular
## 18188  88 retired divorced    basic.4y    no    no   no cellular
## 18189  88 retired divorced    basic.4y    no    yes   no cellular
##      month day_of_week duration campaign days_since_previous previous
## 24834   sep          wed      837         1                NA        2
## 24841   sep          wed      223         2                NA        0
## 26016   jun          mon      245         1                NA        0
## 26521   sep          tue      314         1                NA        0
## 18180   mar          wed       48         1                NA        0
## 18182   mar          wed      266         2                NA        0
## 18184   mar          wed      796         5                NA        0
## 18187   mar          wed      126         1                NA        0
## 18188   mar          wed      323         1                NA        0
## 18189   mar          wed      101         7                NA        0
```

```
##      previous_outcome emp.var.rate cons.price.idx cons.conf.idx euribor3m
## 24834      failure      -3.4        92.379        -29.8        0.781
## 24841      nonexistent      -3.4        92.379        -29.8        0.781
## 26016      nonexistent      -1.7        94.055        -39.8        0.720
## 26521      nonexistent      -1.1        94.199        -37.5        0.881
## 18180      nonexistent      -1.8        92.843        -50.0        1.663
## 18182      nonexistent      -1.8        92.843        -50.0        1.663
## 18184      nonexistent      -1.8        92.843        -50.0        1.663
## 18187      nonexistent      -1.8        92.843        -50.0        1.663
## 18188      nonexistent      -1.8        92.843        -50.0        1.663
## 18189      nonexistent      -1.8        92.843        -50.0        1.663
##      nr.employed response Index education_numeric age_z
## 24834      5017      no 24834      NA 4.904889
## 24841      5017      no 24841      NA 4.904889
## 26016      4991      yes 26016      NA 4.712586
## 26521      4963      yes 26521      NA 4.712586
## 18180      5099      no 18180      NA 4.616435
## 18182      5099      yes 18182      NA 4.616435
## 18184      5099      yes 18184      NA 4.616435
## 18187      5099      yes 18187      NA 4.616435
## 18188      5099      yes 18188      NA 4.616435
## 18189      5099      yes 18189      NA 4.616435
```

6) For the job field, combine the jobs with less than 5% of the records into a field called other.

Answer:

```
count(bank_train$job)
```

```
##      x freq
## 1      admin. 6757
## 2      blue-collar 6051
## 3      entrepreneur 914
## 4      housemaid 709
## 5      management 1889
## 6      retired 1143
## 7      self-employed 918
## 8      services 2581
## 9      student 598
## 10     technician 4437
## 11     unemployed 667
## 12     unknown 210
```

5% of the records is 1343.75 so the jobs with less than 5% of the records are entrepreneur, housemaid, retired, self-employed, student, unemployed and unknown.

```
job.other <- revalue(x = bank_train$job, replace=c("entrepreneur" = "other",
"housemaid" = "other", "retired" = "other", "self-employed" = "other",
"student" = "other", "unemployed" = "other", "unknown" = "other"))
job.other
```

```

##      [1] "other"          "services"      "blue-collar"  "services"      "blue-
collar"
##      [6] "other"          "blue-collar"  "management"  "other"         "other"
##     [11] "technician"    "admin."       "technician"  "admin."        "blue-
collar"
##     [16] "blue-collar"   "other"        "services"    "technician"    "admin."
##     [21] "management"    "other"        "admin."      "admin."        "blue-
collar"
##     [26] "admin."        "admin."       "admin."      "other"
"technician"
##     [31] "other"         "blue-collar"  "blue-collar" "admin."        "admin."
##     [36] "blue-collar"   "admin."       "admin."      "blue-collar"
"management"
##     [41] "management"    "admin."       "blue-collar" "technician"    "services"
##     [46] "management"    "blue-collar"  "blue-collar" "other"
"technician"
##     [51] "admin."        "technician"   "admin."      "admin."        "other"
##     [56] "blue-collar"   "services"     "admin."      "blue-collar"   "blue-
collar"
##     [61] "services"      "admin."       "admin."      "services"      "admin."
##     [66] "other"         "other"        "other"       "services"
"management"
##     [71] "blue-collar"   "admin."       "blue-collar" "admin."        "blue-
collar"
##     [76] "blue-collar"   "technician"   "admin."      "admin."        "other"
##     [81] "blue-collar"   "technician"   "management"  "other"         "services"
##     [86] "blue-collar"   "blue-collar"  "admin."      "blue-collar"   "other"
##     [91] "blue-collar"   "blue-collar"  "blue-collar" "technician"    "services"
##     [96] "blue-collar"   "blue-collar"  "blue-collar" "services"      "services"
##    [101] "blue-collar"   "management"   "blue-collar" "technician"    "admin."
##    [106] "management"    "services"     "admin."      "services"      "blue-
collar"
##    [111] "technician"    "blue-collar"  "admin."      "management"
"technician"
##    [116] "admin."        "blue-collar"  "technician"  "blue-collar"   "blue-
collar"
##    [121] "admin."        "blue-collar"  "services"    "blue-collar"   "admin."
##    [126] "blue-collar"   "other"        "other"       "other"         "other"
##    [131] "other"         "other"        "other"       "blue-collar"   "services"
##    [136] "technician"    "technician"   "technician"  "other"         "admin."
##    [141] "admin."        "services"     "management"  "admin."        "other"
##    [146] "admin."        "blue-collar"  "services"    "technician"    "services"
##    [151] "technician"    "blue-collar"  "services"    "technician"    "blue-
collar"
##    [156] "services"      "services"     "blue-collar" "management"
"technician"
##    [161] "admin."        "blue-collar"  "admin."      "blue-collar"   "other"
##    [166] "other"         "management"   "other"       "management"    "other"
##    [171] "blue-collar"   "technician"   "admin."      "blue-collar"   "blue-
collar"

```

```

## [176] "other" "blue-collar" "services" "management" "admin."
## [181] "technician" "blue-collar" "blue-collar" "services" "other"
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collar"
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## [1701] "blue-collar" "technician" "technician"  "admin."      "blue-
collar"
## [1706] "technician" "admin."      "other"       "blue-collar" "services"
## [1711] "management" "blue-collar" "other"       "blue-collar" "admin."
## [1716] "admin."      "services"    "other"       "technician"
"technician"
## [1721] "blue-collar" "admin."      "blue-collar" "technician"  "blue-
collar"
## [1726] "blue-collar" "blue-collar" "management"  "technician"  "blue-
collar"
## [1731] "technician" "management" "management"  "other"       "admin."
## [1736] "other"       "management" "other"       "admin."      "other"
## [1741] "blue-collar" "management" "admin."      "admin."      "admin."
## [1746] "admin."      "admin."      "blue-collar" "other"
"management"
## [1751] "blue-collar" "blue-collar" "services"    "technician"
"technician"
## [1756] "blue-collar" "blue-collar" "blue-collar" "management"
"technician"
## [1761] "technician" "admin."      "technician"  "blue-collar" "blue-
collar"
## [1766] "blue-collar" "blue-collar" "management"  "blue-collar" "blue-
collar"
## [1771] "blue-collar" "other"       "management"  "blue-collar" "blue-
collar"
## [1776] "other"       "technician" "services"    "blue-collar" "services"
## [1781] "other"       "blue-collar" "services"    "management"  "other"
## [1786] "other"       "services"    "services"    "blue-collar" "blue-
collar"
## [1791] "technician" "blue-collar" "management"  "management"  "other"
## [1796] "services"    "blue-collar" "services"    "admin."      "blue-
collar"
## [1801] "blue-collar" "services"    "blue-collar" "blue-collar" "other"

```

```

## [1806] "other"      "blue-collar" "technician"  "other"      "other"
## [1811] "admin."      "admin."      "management"  "services"    "blue-
collar"
## [1816] "admin."      "blue-collar" "technician"  "admin."
"technician"
## [1821] "blue-collar" "other"       "blue-collar" "blue-collar" "other"
## [1826] "technician"  "admin."     "blue-collar" "blue-collar" "other"
## [1831] "services"    "other"      "admin."     "blue-collar"
"management"
## [1836] "technician"  "services"   "management" "blue-collar" "blue-
collar"
## [1841] "blue-collar" "blue-collar" "blue-collar" "other"       "blue-
collar"
## [1846] "blue-collar" "blue-collar" "admin."     "blue-collar" "admin."
## [1851] "blue-collar" "admin."     "management" "blue-collar" "other"
## [1856] "other"       "blue-collar" "management" "services"    "blue-
collar"
## [1861] "blue-collar" "technician" "technician" "admin."      "blue-
collar"
## [1866] "other"       "services"   "management" "blue-collar" "services"
## [1871] "admin."     "admin."    "other"      "technician"
"technician"
## [1876] "blue-collar" "management" "admin."     "services"
"technician"
## [1881] "blue-collar" "blue-collar" "admin."     "blue-collar" "services"
## [1886] "blue-collar" "services"    "admin."     "blue-collar"
"management"
## [1891] "services"    "management" "management" "blue-collar" "other"
## [1896] "other"       "technician" "blue-collar" "blue-collar" "admin."
## [1901] "other"       "other"      "blue-collar" "services"    "admin."
## [1906] "services"    "blue-collar" "other"      "other"       "blue-
collar"
## [1911] "admin."     "blue-collar" "admin."     "other"       "admin."
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collar"
## [1921] "technician" "technician" "technician" "blue-collar" "blue-
collar"
## [1926] "other"       "other"      "admin."     "technician" "blue-
collar"
## [1931] "technician" "blue-collar" "technician" "blue-collar" "blue-
collar"
## [1936] "blue-collar" "services"   "admin."     "services"    "services"
## [1941] "blue-collar" "other"      "services"    "technician"  "blue-
collar"
## [1946] "blue-collar" "services"   "services"    "admin."     "services"
## [1951] "technician" "other"      "admin."     "technician"
"technician"
## [1956] "blue-collar" "technician" "other"      "blue-collar" "blue-
collar"
## [1961] "other"       "blue-collar" "blue-collar" "other"       "admin."

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## [1966] "admin."      "blue-collar" "management" "admin."      "services"
## [1971] "blue-collar" "blue-collar" "services"    "blue-collar"
"technician"
## [1976] "services"      "blue-collar" "blue-collar" "other"       "blue-
collar"
## [1981] "other"         "management"  "services"    "admin."
"technician"
## [1986] "admin."        "management"  "technician"  "other"       "blue-
collar"
## [1991] "blue-collar"  "admin."      "admin."      "admin."      "services"
## [1996] "other"        "admin."      "technician"  "blue-collar" "other"
## [2001] "blue-collar"  "blue-collar" "management"  "admin."      "services"
## [2006] "blue-collar"  "admin."      "admin."      "blue-collar" "blue-
collar"
## [2011] "blue-collar"  "admin."      "other"       "blue-collar"
"management"
## [2016] "blue-collar"  "blue-collar" "other"       "services"    "admin."
## [2021] "technician"   "admin."      "other"       "admin."      "blue-
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## [2026] "other"        "technician"  "management"  "services"
"technician"
## [2031] "services"     "services"    "admin."      "blue-collar" "admin."
## [2036] "technician"   "other"       "other"       "other"       "other"
## [2041] "blue-collar"  "technician"  "admin."      "blue-collar" "admin."
## [2046] "blue-collar"  "blue-collar" "blue-collar" "technician"  "services"
## [2051] "technician"   "admin."      "services"    "blue-collar" "blue-
collar"
## [2056] "technician"   "admin."      "blue-collar" "blue-collar" "blue-
collar"
## [2061] "technician"   "technician"  "services"    "blue-collar" "blue-
collar"
## [2066] "technician"   "admin."      "blue-collar" "other"       "other"
## [2071] "admin."       "blue-collar" "technician"  "other"
"technician"
## [2076] "management"   "admin."      "other"       "blue-collar" "blue-
collar"
## [2081] "other"        "admin."      "blue-collar" "blue-collar"
"technician"
## [2086] "other"        "admin."      "admin."      "blue-collar"
"technician"
## [2091] "admin."       "blue-collar" "admin."      "services"    "blue-
collar"
## [2096] "other"        "other"       "blue-collar" "blue-collar" "blue-
collar"
## [2101] "blue-collar"  "blue-collar" "admin."      "technician"  "blue-
collar"
## [2106] "other"        "services"    "other"       "admin."      "blue-
collar"
## [2111] "management"   "blue-collar" "admin."      "blue-collar" "other"
## [2116] "blue-collar"  "management"  "other"       "admin."

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"management"
## [2121] "services" "blue-collar" "other" "services" "other"
## [2126] "technician" "services" "blue-collar" "blue-collar" "blue-
collar"
## [2131] "other" "blue-collar" "blue-collar" "technician" "admin."
## [2136] "other" "blue-collar" "admin." "blue-collar" "other"
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## [2146] "other" "blue-collar" "blue-collar" "blue-collar" "services"
## [2151] "other" "blue-collar" "other" "blue-collar" "admin."
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## [2166] "admin." "other" "other" "blue-collar"
"management"
## [2171] "other" "blue-collar" "services" "admin." "admin."
## [2176] "blue-collar" "admin." "other" "admin." "admin."
## [2181] "management" "admin." "blue-collar" "services" "other"
## [2186] "admin." "blue-collar" "admin." "blue-collar"
"management"
## [2191] "blue-collar" "blue-collar" "other" "other" "blue-
collar"
## [2196] "blue-collar" "blue-collar" "blue-collar" "blue-collar" "blue-
collar"
## [2201] "admin." "blue-collar" "admin." "admin."
"management"
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## [2211] "technician" "technician" "services" "blue-collar" "blue-
collar"
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"management"
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"technician"
## [2246] "blue-collar" "admin." "technician" "services" "blue-
collar"
## [2251] "admin." "other" "other" "blue-collar" "blue-
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## [2256] "admin." "admin." "technician" "technician" "other"
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## [2266] "other" "admin." "services" "admin." "admin."
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collar"
## [2276] "blue-collar" "management" "blue-collar" "other"
"technician"
## [2281] "blue-collar" "admin." "services" "technician" "admin."
## [2286] "other" "blue-collar" "other" "technician" "admin."
## [2291] "admin." "blue-collar" "management" "services" "blue-

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collar"
## [2296] "admin."      "blue-collar" "other"      "blue-collar" "other"
## [2301] "other"      "admin."      "technician" "blue-collar" "blue-
collar"
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## [2311] "other"      "other"      "management" "services"   "admin."
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## [2321] "management" "services"   "admin."    "technician"
"management"
## [2326] "blue-collar" "admin."     "admin."    "blue-collar" "admin."
## [2331] "blue-collar" "blue-collar" "blue-collar" "other"      "blue-
collar"
## [2336] "other"      "admin."     "management" "services"   "admin."
## [2341] "blue-collar" "other"      "admin."    "blue-collar" "blue-
collar"
## [2346] "admin."      "management" "technician" "blue-collar" "other"
## [2351] "technician" "blue-collar" "other"      "technician" "other"
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## [2361] "other"      "technician" "admin."    "blue-collar"
"technician"
## [2366] "technician" "management" "services"   "admin."
"management"
## [2371] "technician" "blue-collar" "technician" "admin."     "services"
## [2376] "admin."     "other"      "technician" "services"   "blue-
collar"
## [2381] "blue-collar" "services"   "other"      "other"      "blue-
collar"
## [2386] "management" "blue-collar" "management" "management" "services"
## [2391] "other"      "admin."     "blue-collar" "services"
"management"
## [2396] "other"      "blue-collar" "admin."     "services"   "admin."
## [2401] "other"      "blue-collar" "other"      "admin."     "admin."
## [2406] "blue-collar" "other"      "blue-collar" "services"
"technician"
## [2411] "services"   "other"      "blue-collar" "other"      "blue-
collar"
## [2416] "admin."     "blue-collar" "technician" "technician" "admin."
## [2421] "blue-collar" "blue-collar" "management" "other"
"management"
## [2426] "admin."     "blue-collar" "services"   "other"      "blue-
collar"
## [2431] "services"   "admin."     "blue-collar" "blue-collar" "services"
## [2436] "admin."     "technician" "services"   "services"   "blue-
collar"
## [2441] "admin."     "admin."     "blue-collar" "admin."     "admin."
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"management"
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## [2456] "services"   "technician" "admin."     "admin."
"technician"

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## [2471] "management" "admin." "blue-collar" "blue-collar"
"technician"
## [2476] "other" "technician" "services" "services" "blue-
collar"
## [2481] "blue-collar" "blue-collar" "blue-collar" "technician" "admin."
## [2486] "blue-collar" "blue-collar" "other" "other" "admin."
## [2491] "other" "blue-collar" "technician" "blue-collar"
"technician"
## [2496] "admin." "blue-collar" "services" "blue-collar" "blue-
collar"
## [2501] "services" "blue-collar" "technician" "admin." "blue-
collar"
## [2506] "other" "other" "other" "admin." "blue-
collar"
## [2511] "management" "other" "other" "admin." "other"
## [2516] "services" "admin." "technician" "blue-collar" "admin."
## [2521] "technician" "blue-collar" "admin." "other" "admin."
## [2526] "admin." "admin." "other" "other" "admin."
## [2531] "blue-collar" "blue-collar" "blue-collar" "management"
"technician"
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## [2546] "admin." "blue-collar" "other" "management" "other"
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collar"
## [2566] "admin." "services" "technician" "admin." "blue-
collar"
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## [2576] "blue-collar" "admin." "blue-collar" "services"
"management"
## [2581] "services" "technician" "other" "management"
"technician"
## [2586] "blue-collar" "technician" "blue-collar" "management"
"technician"
## [2591] "admin." "other" "management" "blue-collar" "other"
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collar"
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## [2606] "blue-collar" "admin." "other" "other" "blue-
collar"
## [2611] "other" "management" "admin." "services" "blue-
collar"
## [2616] "technician" "technician" "other" "other" "blue-
collar"
## [2621] "services" "management" "admin." "other" "blue-
collar"

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## [2626] "technician" "blue-collar" "admin." "blue-collar" "blue-collar"
## [2631] "admin." "services" "blue-collar" "technician" "blue-collar"
## [2636] "blue-collar" "admin." "other" "services" "other"
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## [2646] "other" "admin." "blue-collar" "blue-collar" "other"
## [2651] "other" "other" "blue-collar" "other" "services"
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## [2661] "admin." "admin." "blue-collar" "blue-collar" "services"
## [2666] "blue-collar" "other" "other" "other" "blue-collar"
## [2671] "blue-collar" "blue-collar" "blue-collar" "blue-collar" "technician"
## [2676] "blue-collar" "blue-collar" "blue-collar" "technician" "services"
## [2681] "services" "blue-collar" "other" "services" "admin."
## [2686] "admin." "other" "blue-collar" "technician" "technician"
## [2691] "technician" "technician" "technician" "blue-collar" "blue-collar"
## [2696] "management" "blue-collar" "blue-collar" "management" "admin."
## [2701] "blue-collar" "services" "services" "admin." "blue-collar"
## [2706] "technician" "admin." "blue-collar" "blue-collar" "admin."
## [2711] "admin." "services" "technician" "technician" "blue-collar"
## [2716] "services" "blue-collar" "services" "management" "technician"
## [2721] "blue-collar" "blue-collar" "other" "services" "blue-collar"
## [2726] "technician" "technician" "other" "technician" "blue-collar"
## [2731] "technician" "management" "blue-collar" "blue-collar" "admin."
## [2736] "blue-collar" "blue-collar" "other" "blue-collar" "blue-collar"
## [2741] "services" "admin." "services" "blue-collar" "services"
## [2746] "services" "other" "blue-collar" "services" "admin."
## [2751] "technician" "services" "management" "technician" "blue-collar"
## [2756] "technician" "other" "blue-collar" "admin." "technician"
## [2761] "services" "admin." "other" "technician" "admin."
## [2766] "other" "other" "admin." "admin." "blue-collar"
## [2771] "other" "technician" "services" "blue-collar" "blue-collar"
## [2776] "admin." "management" "blue-collar" "blue-collar" "management"
## [2781] "blue-collar" "blue-collar" "management" "services" "other"
## [2786] "admin." "admin." "services" "technician" "blue-collar"

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collar"
## [2791] "services" "blue-collar" "other" "technician" "services"
## [2796] "blue-collar" "blue-collar" "blue-collar" "technician" "admin."
## [2801] "other" "technician" "admin." "services" "services"
## [2806] "blue-collar" "blue-collar" "services" "blue-collar" "admin."
## [2811] "technician" "blue-collar" "blue-collar" "blue-collar"
"technician"
## [2816] "services" "technician" "technician" "services" "admin."
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collar"
## [2831] "blue-collar" "admin." "admin." "blue-collar" "blue-
collar"
## [2836] "technician" "admin." "admin." "blue-collar" "other"
## [2841] "services" "admin." "services" "services" "services"
## [2846] "technician" "admin." "other" "admin." "other"
## [2851] "other" "other" "admin." "management" "blue-
collar"
## [2856] "blue-collar" "blue-collar" "admin." "blue-collar" "blue-
collar"
## [2861] "technician" "blue-collar" "other" "blue-collar" "blue-
collar"
## [2866] "other" "blue-collar" "management" "other"
"management"
## [2871] "services" "other" "admin." "services" "blue-
collar"
## [2876] "other" "blue-collar" "other" "services" "services"
## [2881] "management" "blue-collar" "blue-collar" "technician" "blue-
collar"
## [2886] "services" "services" "other" "admin." "blue-
collar"
## [2891] "admin." "other" "blue-collar" "technician" "admin."
## [2896] "other" "management" "technician" "other" "services"
## [2901] "admin." "other" "admin." "other" "blue-
collar"
## [2906] "other" "admin." "other" "services" "other"
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## [2936] "other" "management" "blue-collar" "technician" "blue-
collar"
## [2941] "blue-collar" "management" "other" "blue-collar" "blue-
collar"
## [2946] "other" "blue-collar" "other" "other" "admin."
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## [2961] "other" "technician" "blue-collar" "blue-collar" "admin."
## [2966] "blue-collar" "blue-collar" "admin." "blue-collar"

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"technician"
## [2971] "admin."      "other"      "blue-collar" "admin."      "admin."
## [2976] "technician"  "other"      "services"    "admin."      "blue-
collar"
## [2981] "technician"  "other"      "admin."      "technician"  "blue-
collar"
## [2986] "other"       "admin."     "admin."      "blue-collar" "admin."
## [2991] "technician"  "blue-collar" "management"  "other"
"technician"
## [2996] "services"    "admin."     "technician"  "technician"  "blue-
collar"
## [3001] "admin."     "blue-collar" "blue-collar" "blue-collar" "admin."
## [3006] "services"    "blue-collar" "admin."      "services"     "blue-
collar"
## [3011] "other"       "admin."     "technician"  "other"        "services"
## [3016] "technician"  "blue-collar" "blue-collar" "admin."        "blue-
collar"
## [3021] "admin."     "technician" "admin."      "other"        "admin."
## [3026] "technician"  "services"    "other"       "blue-collar"  "admin."
## [3031] "other"       "admin."     "technician"  "admin."       "admin."
## [3036] "admin."     "management" "management"  "technician"   "blue-
collar"
## [3041] "blue-collar" "other"      "admin."      "admin."       "blue-
collar"
## [3046] "other"       "admin."     "technician"  "admin."       "other"
## [3051] "other"       "blue-collar" "admin."      "other"        "services"
## [3056] "blue-collar" "admin."     "services"    "other"        "services"
## [3061] "services"    "other"      "admin."      "technician"   "blue-
collar"
## [3066] "other"       "blue-collar" "services"     "blue-collar"  "blue-
collar"
## [3071] "other"       "technician" "admin."      "blue-collar"  "blue-
collar"
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collar"
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"management"
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collar"
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collar"
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## [4436] "blue-collar" "technician" "services" "services" "admin."
## [4441] "management" "other" "blue-collar" "blue-collar"

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"technician"
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collar"
## [4456] "other"      "admin."      "blue-collar" "other"       "blue-
collar"
## [4461] "other"      "admin."      "technician"  "blue-collar" "admin."
## [4466] "blue-collar" "management"  "admin."      "other"       "blue-
collar"
## [4471] "admin."     "blue-collar" "admin."      "other"
"technician"
## [4476] "services"   "other"       "services"    "blue-collar"
"management"
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collar"
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collar"
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## [4506] "blue-collar" "other"       "admin."      "admin."
"management"
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collar"
## [4516] "other"      "blue-collar" "admin."      "services"    "blue-
collar"
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collar"
## [4526] "technician" "admin."      "other"       "admin."
"management"
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collar"
## [4566] "other"      "blue-collar" "technician"  "blue-collar" "admin."
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"technician"
## [4576] "other"      "admin."      "technician"  "other"       "services"
## [4581] "management" "admin."      "other"       "blue-collar"
"technician"
## [4586] "admin."     "management"  "technician"  "technician"  "blue-
collar"
## [4591] "technician" "other"       "blue-collar" "admin."      "other"
## [4596] "other"      "services"    "blue-collar" "other"       "other"
## [4601] "other"      "blue-collar" "admin."      "admin."      "admin."
## [4606] "blue-collar" "technician"  "blue-collar" "blue-collar" "services"

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## [4611] "admin."      "technician" "admin."      "other"      "other"
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"management"
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collar"
## [4626] "blue-collar" "other"       "admin."      "services"    "blue-
collar"
## [4631] "technician"   "other"       "other"       "admin."      "other"
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collar"
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collar"
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"technician"
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collar"
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collar"
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collar"
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collar"
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"technician"
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## [4776] "technician"   "admin."      "management"  "blue-collar" "other"
## [4781] "blue-collar"  "blue-collar" "admin."      "blue-collar" "blue-

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collar"
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"technician"
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collar"
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"management"
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collar"
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collar"
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collar"
## [4836] "blue-collar"   "blue-collar" "blue-collar" "technician"  "blue-
collar"
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## [4856] "technician"    "blue-collar" "blue-collar" "admin."      "admin."
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collar"
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"technician"
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"technician"
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collar"
## [4936] "blue-collar"   "admin."      "blue-collar" "technician"  "services"
## [4941] "blue-collar"   "admin."      "blue-collar" "technician"  "services"
## [4946] "services"      "technician"  "blue-collar" "blue-collar"
"technician"

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## [4951] "services"      "services"      "admin."        "technician"    "admin."
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## [4961] "blue-collar"     "admin."        "blue-collar"   "admin."        "admin."
## [4966] "admin."          "other"         "technician"    "blue-collar"   "admin."
## [4971] "technician"      "admin."        "blue-collar"   "management"    "admin."
## [4976] "other"           "services"      "technician"    "other"         "blue-
collar"
## [4981] "other"           "blue-collar"   "blue-collar"   "blue-collar"   "other"
## [4986] "admin."          "other"         "admin."        "admin."        "admin."
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collar"
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"technician"
## [5006] "technician"      "technician"    "technician"    "admin."        "blue-
collar"
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"technician"
## [5016] "admin."          "blue-collar"   "blue-collar"   "management"    "services"
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collar"
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"management"
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"technician"
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"technician"
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collar"
## [5061] "technician"      "technician"    "other"         "admin."        "services"
## [5066] "technician"      "management"    "management"    "other"         "other"
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## [5081] "admin."          "admin."        "services"      "other"         "admin."
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## [5091] "other"           "blue-collar"   "blue-collar"   "admin."        "services"
## [5096] "admin."          "admin."        "admin."        "services"      "blue-
collar"
## [5101] "blue-collar"     "technician"    "admin."        "other"
"technician"
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"management"
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## [5116] "technician"      "blue-collar"   "other"         "services"      "other"
## [5121] "blue-collar"     "services"      "other"         "admin."
"technician"
## [5126] "admin."          "other"         "other"         "technician"

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"management"
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"technician"
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"technician"
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## [5146] "blue-collar" "management" "technician" "other" "other"
## [5151] "services" "technician" "management" "admin."
"technician"
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"management"
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"management"
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collar"
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## [5296] "services" "blue-collar" "technician" "services"

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"management"
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## [5331] "blue-collar" "other" "blue-collar" "other" "services"
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collar"
## [5341] "admin." "services" "other" "admin."
"management"
## [5346] "services" "technician" "admin." "other" "services"
## [5351] "services" "blue-collar" "management" "other" "other"
## [5356] "admin." "other" "blue-collar" "services"
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collar"
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collar"
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collar"
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collar"
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"technician"
## [5521] "services"    "other"      "blue-collar" "blue-collar"
"technician"
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collar"
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collar"
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collar"
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collar"
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collar"
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"management"
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collar"
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collar"
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"technician"
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## [5651] "other"      "services"    "other"      "management"  "blue-

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collar"
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collar"
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collar"
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## [5686] "other"       "other"      "admin."     "admin."
"management"
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collar"
## [5696] "management" "blue-collar" "blue-collar" "technician" "admin."
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collar"
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## [5711] "other"       "other"      "admin."     "blue-collar" "admin."
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"technician"
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"technician"
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## [5776] "blue-collar" "services"   "services"   "technician" "admin."
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collar"
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"technician"
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"technician"
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collar"
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collar"
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collar"
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"technician"
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"technician"
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collar"
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"management"
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"technician"
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"technician"
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collar"
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"management"
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"technician"
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"management"
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"technician"
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collar"
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"technician"
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"technician"
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collar"
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## [7091] "technician"    "other"       "admin."      "blue-collar"
"management"
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"management"
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"technician"

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collar"
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"management"
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"technician"
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collar"
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## [9811] "blue-collar" "admin."      "other"      "blue-collar" "blue-
collar"

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"technician"
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collar"
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"management"
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collar"
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	"collar"				
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## [14266]	"admin."	"admin."	"technician"	"admin."	"blue-collar"
	"collar"				
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	"collar"				
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	"collar"				
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"technician"
## [17081] "blue-collar" "other"      "technician"  "technician"  "blue-
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## [17161] "services"    "services"   "technician"  "other"      "other"
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collar"
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"technician"
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"technician"
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"technician"
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"technician"

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collar"

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"management"
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"management"
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"technician"
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"management"
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"technician"
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"technician"
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"management"
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"management"
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"technician"
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"management"
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collar"
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"technician"
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"management"
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## [18436] "management" "other"       "other"       "technician"  "blue-
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## [18441] "blue-collar" "admin."      "admin."      "technician"  "blue-
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## [18451] "other"      "management" "admin."      "technician"
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"technician"
## [18461] "management" "other"       "other"       "other"       "services"
## [18466] "technician" "services"    "services"    "services"    "other"
## [18471] "other"      "services"    "other"       "technician"  "blue-
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## [18491] "services"    "other"       "technician" "admin."      "other"
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## [18501] "technician" "other"       "blue-collar" "technician"  "blue-
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## [18506] "technician" "technician"  "blue-collar" "services"    "blue-
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"technician"
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"technician"
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## [18536] "other"      "admin."     "technician" "management"
"technician"

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collar"
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collar"
## [19036] "blue-collar" "technician" "technician" "blue-collar" "admin."

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## [19056]	"blue-collar"	"admin."	"other"	"technician"	"other"
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## [19081]	"admin."	"blue-collar"	"admin."	"admin."	"other"
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	"technician"				
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	"technician"				
## [19116]	"other"	"technician"	"other"	"services"	
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## [19521] "other" "admin." "technician" "admin." "services"
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## [19586] "other" "admin." "other" "admin."
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## [19596] "technician" "admin." "admin." "admin." "admin."
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## [19686] "admin." "admin." "admin." "admin." "services"
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	"technician"				
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	"technician"				
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## [19756]	"other"	"admin."	"other"	"admin."	
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## [19781]	"admin."	"admin."	"other"	"other"	"other"
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## [19796]	"technician"	"admin."	"management"	"other"	"admin."
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	"technician"				
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	"management"				
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collar"
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"management"
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"technician"
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## [22676] "other"         "admin."        "admin."          "admin."
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collar"
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collar"
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"management"
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"technician"
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## [23046] "admin."      "other"       "blue-collar" "admin."      "admin."
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## [23061] "admin."      "blue-collar" "admin."      "admin."
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"technician"
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"technician"
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collar"
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"technician"

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"technician"
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"technician"
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## [23371] "blue-collar"   "admin."      "other"        "technician"   "services"
## [23376] "admin."        "other"       "technician"  "other"
"technician"
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"technician"
## [23391] "management"    "technician"  "other"        "admin."      "admin."
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"technician"
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"technician"
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"technician"
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"technician"
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## [23761]	"admin."	"services"	"management"	"other"	"other"
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## [23771]	"admin."	"admin."	"management"	"other"	"other"
## [23776]	"admin."	"other"	"blue-collar"	"technician"	"admin."
## [23781]	"admin."	"technician"	"admin."	"admin."	
	"management"				
## [23786]	"technician"	"services"	"other"	"other"	
	"management"				
## [23791]	"admin."	"admin."	"management"	"other"	"admin."
## [23796]	"admin."	"technician"	"admin."	"other"	"admin."
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## [23806]	"technician"	"admin."	"technician"	"blue-collar"	"admin."
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	"technician"				
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## [23881]	"admin."	"other"	"technician"	"other"	"admin."
## [23886]	"admin."	"admin."	"admin."	"other"	"admin."
## [23891]	"admin."	"admin."	"admin."	"technician"	
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## [23896]	"other"	"services"	"management"	"technician"	"other"
## [23901]	"admin."	"other"	"admin."	"admin."	"other"
## [23906]	"technician"	"other"	"other"	"management"	
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## [23916]	"admin."	"blue-collar"	"other"	"management"	"other"
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## [24176]	"other"	"other"	"other"	"other"	"services"
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## [24186]	"technician"	"admin."	"other"	"admin."	
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## [24191]	"admin."	"technician"	"management"	"admin."	
"technician"					
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## [24211]	"other"	"admin."	"technician"	"admin."	
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## [24241]	"admin."	"other"	"management"	"admin."	"other"
## [24246]	"other"	"admin."	"other"	"other"	
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## [24256]	"other"	"technician"	"technician"	"technician"	
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## [24266]	"services"	"admin."	"blue-collar"	"other"	"other"
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## [24276]	"other"	"admin."	"other"	"other"	
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## [24281]	"other"	"other"	"other"	"other"	
"technician"					
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## [24291]	"other"	"other"	"other"	"admin."	"other"
## [24296]	"admin."	"admin."	"other"	"technician"	"other"
## [24301]	"admin."	"admin."	"technician"	"other"	"blue-
collar"					
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## [24336]	"admin."	"other"	"other"	"blue-collar"	"services"
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## [24346]	"other"	"admin."	"other"	"admin."	"other"
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## [24356]	"admin."	"admin."	"blue-collar"	"other"	"admin."
## [24361]	"admin."	"other"	"blue-collar"	"other"	"other"
## [24366]	"other"	"technician"	"management"	"management"	"admin."
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## [24391]	"other"	"technician"	"admin."	"other"	"admin."
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	"technician"				
## [24461]	"admin."	"technician"	"technician"	"admin."	
	"management"				
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## [24491]	"other"	"technician"	"technician"	"other"	
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"technician"
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## [25111] "technician" "services" "management" "admin."
"technician"
## [25116] "admin." "admin." "other" "management" "other"

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## [25121]	"technician"	"other"	"other"	"blue-collar"	"other"
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## [25131]	"admin."	"admin."	"technician"	"admin."	
## [25136]	"admin."	"admin."	"other"	"other"	
## [25141]	"other"	"other"	"blue-collar"	"services"	"services"
## [25146]	"other"	"other"	"other"	"technician"	
## [25151]	"other"	"other"	"blue-collar"	"services"	
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## [25161]	"other"	"admin."	"management"	"other"	"blue-collar"
## [25166]	"admin."	"other"	"technician"	"admin."	
## [25171]	"other"	"other"	"admin."	"other"	
## [25176]	"admin."	"other"	"other"	"admin."	"admin."
## [25181]	"other"	"other"	"other"	"admin."	
## [25186]	"other"	"technician"	"technician"	"other"	
## [25191]	"technician"	"admin."	"blue-collar"	"other"	"other"
## [25196]	"other"	"technician"	"other"	"other"	"other"
## [25201]	"other"	"admin."	"other"	"other"	
## [25206]	"technician"	"other"	"other"	"other"	"other"
## [25211]	"admin."	"other"	"admin."	"admin."	"admin."
## [25216]	"other"	"admin."	"management"	"other"	"admin."
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## [25226]	"admin."	"technician"	"admin."	"admin."	"admin."
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## [25241]	"admin."	"management"	"other"	"blue-collar"	"admin."
## [25246]	"admin."	"technician"	"other"	"other"	"other"
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## [25256]	"other"	"admin."	"technician"	"blue-collar"	"admin."
## [25261]	"other"	"blue-collar"	"admin."	"other"	"other"
## [25266]	"technician"	"admin."	"technician"	"other"	"admin."
## [25271]	"admin."	"other"	"other"	"other"	
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## [25281]	"admin."	"blue-collar"	"other"	"admin."	
## [25286]	"management"	"management"	"admin."	"technician"	"other"
## [25291]	"admin."	"other"	"admin."	"other"	"admin."

## [25296]	"technician"	"management"	"other"	"other"	"admin."
## [25301]	"admin."	"admin."	"admin."	"services"	"services"
## [25306]	"admin."	"other"	"other"	"other"	
	"management"				
## [25311]	"technician"	"management"	"other"	"admin."	"other"
## [25316]	"admin."	"admin."	"admin."	"technician"	"other"
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## [25326]	"admin."	"other"	"other"	"other"	"admin."
## [25331]	"admin."	"admin."	"other"	"blue-collar"	"other"
## [25336]	"blue-collar"	"other"	"blue-collar"	"other"	"admin."
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## [26831]	"blue-collar"	"admin."	"admin."	"blue-collar"	
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## [26861]	"admin."	"admin."	"other"	"services"	
## [26866]	"management"				

```
## [26866] "other"      "admin."      "other"      "other"      "admin."
## [26871] "admin."      "other"      "other"      "blue-collar"
```

7)Rename the default predictor to credit_default.

Answer:

```
names(bank_train)[5]<- "credit_default"
head(bank_train)

##   age      job marital  education credit_default housing loan
## 1  56  housemaid married  basic.4y          no      no   no
## 2  57   services married high.school    unknown      no   no
## 3  41 blue-collar married   unknown    unknown      no   no
## 4  25   services  single high.school          no     yes  no
## 5  29 blue-collar  single high.school          no      no  yes
## 6  57  housemaid divorced  basic.4y          no     yes  no
##   month day_of_week duration campaign days_since_previous previous
## 1   may           mon         261         1              NA         0
## 2   may           mon         149         1              NA         0
## 3   may           mon         217         1              NA         0
## 4   may           mon         222         1              NA         0
## 5   may           mon         137         1              NA         0
## 6   may           mon         293         1              NA         0
##   previous_outcome emp.var.rate cons.price.idx cons.conf.idx euribor3m
## 1      nonexistent         1.1       93.994      -36.4      4.857
## 2      nonexistent         1.1       93.994      -36.4      4.857
## 3      nonexistent         1.1       93.994      -36.4      4.857
## 4      nonexistent         1.1       93.994      -36.4      4.857
## 5      nonexistent         1.1       93.994      -36.4      4.857
## 6      nonexistent         1.1       93.994      -36.4      4.857
##   nr.employed response Index education_numeric      age_z
## 1         5191        no     1              NA  1.53959650
## 2         5191        no     2              NA  1.63574771
## 3         5191        no     3              NA  0.09732832
## 4         5191        no     4              NA -1.44109106
## 5         5191        no     5              NA -1.05648621
## 6         5191        no     6              NA  1.63574771
```

8)For the variable month, change the field values to 1–12, but keep the variable as categorical.

Answer:

```
month.num <- revalue(x =
bank_train$month, replace=c("may"=5, "jun"=6, "jul"=7, "mar"=3, "apr"=4, "aug"=8, "s
```

```
ep"=9,"oct"=10,"nov" = 11, "dec" = 12))
month.num
```

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## [26867] "11" "11" "11" "11" "11" "11" "11" "11" "11"

```

9) Do the following for the duration field.

a) Standardize the variable.

Answer:

```

bank_train$duration_z <- scale(x = bank_train$duration)
bank_train[1:10, c(11, 25)]

```

```
##      duration  duration_z
## 1         261  0.01258062
## 2         149 -0.41988998
## 3         217 -0.15731854
## 4         222 -0.13801182
## 5         137 -0.46622612
## 6         293  0.13614365
## 7         312  0.20950920
## 8         195 -0.24226813
## 9          38 -0.84849924
## 10        342  0.32534954
```

b) Identify how many outliers there are and identify the most extreme outlier.

Answer:

```
summary(bank_train$duration_z)
```

```
##      V1
## Min.   :-0.9952
## 1st Qu.: -0.5975
## Median :-0.3002
## Mean    : 0.0000
## 3rd Qu.: 0.2365
## Max.    :17.9949
```

```
bank_outliersdur <- bank_train[ which(bank_train$duration_z < -0.9952 |
bank_train$duration_z > 17.9949 ), ]
bank_train_sortdur <- bank_train[ order(- bank_train$duration_z), ]
head(bank_train_sortdur,1)

##      age      job marital      education credit_default housing
loan
## 15765  33 technician  single professional.course          no    yes
no
##      contact month day_of_week duration campaign days_since_previous
## 15765 telephone  nov          mon    4918          1              NA
##      previous previous_outcome emp.var.rate cons.price.idx cons.conf.idx
## 15765          0      nonexistent    -0.1          93.2          -42
##      euribor3m nr.employed response Index education_numeric      age_z
## 15765    4.406         5195      no 15765          NA -0.6718814
##      duration_z
## 15765    17.99486
```

10) Do the following for the campaign field.

a) Standardize the variable.

Answer:

```
bank_train$campaign_z <- scale(x = bank_train$campaign)
#bank_train$campaign_z
bank_train[1:10,c(12,26)]
```



```
##      campaign campaign_z
## 1          1 -0.5686357
## 2          1 -0.5686357
## 3          1 -0.5686357
## 4          1 -0.5686357
## 5          1 -0.5686357
## 6          1 -0.5686357
## 7          1 -0.5686357
## 8          1 -0.5686357
## 9          1 -0.5686357
## 10         1 -0.5686357
```

b) Identify how many outliers there are and identify the most extreme outlier.

Answer:

```
summary(bank_train$campaign_z)
```

```
##          V1
## Min.     :-0.5686
## 1st Qu.  :-0.5686
## Median   :-0.2048
## Mean     : 0.0000
## 3rd Qu.  : 0.1590
## Max.     :14.7111
```

```
bank_outlierscamp <- bank_train[ which(bank_train$campaign_z < -0.5686 |
bank_train$campaign_z > 14.7111 ), ]
bank_train_sortcamp <- bank_train[ order(- bank_train$campaign_z), ]
head(bank_train_sortcamp,1)
```

```
##      age      job marital      education credit_default housing loan
## 8789  32 technician  single university.degree          no    yes  yes
##      contact month day_of_week duration campaign days_since_previous
previous
## 8789 telephone   jul           wed          16          43           NA
0
##      previous_outcome emp.var.rate cons.price.idx cons.conf.idx euribor3m
## 8789      nonexistent          1.4          93.918          -42.7          4.962
##      nr.employed response Index education_numeric      age_z duration_z
## 8789          5228      no  8789              NA -0.7680326 -0.9334488
##      campaign_z
## 8789    14.71106
```