

Lab_02T

36-290 – Statistical Research Methodology

Week 2 Tuesday – Fall 2021

Data

We'll begin by importing some data from the 36-290 GitHub site. These data are stored in .Rdata format (which is equivalent to .rda, if you've seen that file extension); such data are saved via R's `save()` function and loaded via R's `load()` function. One wrinkle here: the data are stored on the web, so we also have to apply the `url()` function.

```
rm(list=ls()) # This is generally good practice: remove all current variables from the global environment.
file.path = "https://raw.githubusercontent.com/pefreeman/36-290/master/EXAMPLE_DATASETS/BUZZARD/Buzzard_DC1.Rdata"
load(url(file.path))
rm(file.path)
set.seed(101)
s = sample(nrow(df), 4000)
predictors = df[s, -c(7:14)]
response = as.vector(df[s, 14])
rm(df, s)
objects() # Shows the loaded variables. (Redundant with the Environment pane.)
```

```
## [1] "predictors" "response"
```

If everything loaded correctly, you should see two variables in your global environment: `predictors` and `response`. `predictors` is a data frame with 4000 rows and 6 columns, and `response` is a vector of length 4000, and it represents *redshift*, which you can think of as a directly observable proxy for the distance of a galaxy from the Earth. (After all, tape measures aren't going to help us here.) See the description of redshift in Lab_01R if you need to remind yourself what redshift is exactly.

Questions

Question 1

Apply the `dim()`, `nrow()`, `ncol()`, and `length()` functions to `predictors`, so as to build intuition about what these functions output. (Note: we are not using `dplyr` yet, just base R functions here.) Do you know why `length()` returns the value it does? Ask me or the TA if you do not. (But fill in an answer below regardless to reinforce the answer.)

```
dim(predictors)
```

```
## [1] 4000    6
```

```
nrow(predictors)
```

```
## [1] 4000
```

```
ncol(predictors)
```

```
## [1] 6
```

```
length(predictors)
```

```
## [1] 6
```

```
the length() returns 6 because there are 6 variables
```

Question 2

Display the names of each column of `predictors`.

```
names(predictors)
```

```
## [1] "u" "g" "r" "i" "z" "y"
```

Time for a digression.

A *magnitude* is a logarithmic measure of brightness that is calibrated such as to be approximately zero for the brightest stars in the night sky (Sirius, Vega, etc.). Every five-unit *increase* in magnitude is a factor of 100 *decrease* in brightness. So a magnitude of 20 means the object is 100 million times fainter than a star like Vega.

Magnitudes are generally measured in particular bands. Imagine that you put a filter in front of a telescope that only lets photons of certain wavelengths pass through. You can then assess the brightness of an object at just those wavelengths. So `u` represents a magnitude determined at ultraviolet wavelengths, with `g`, `r`, and `i` representing green, red, and infrared. (The `z` and `y` are a bit further into the infrared. The names don't represent words.)

So the predictor data consists of six magnitudes spanning from the near-UV to the near-IR.

Question 3

Use the base R `summary()` function to get a textual summary of the predictors. Do you notice anything strange?

```
summary(predictors)

##           u           g           r           i
##  Min.   :19.55  Min.   :18.51  Min.   :18.00  Min.   :17.74
## 1st Qu.:26.37 1st Qu.:25.86 1st Qu.:25.10 1st Qu.:24.55
##  Median :27.34  Median :26.94  Median :26.29  Median :25.74
##   Mean  :33.06   Mean  :26.87   Mean  :25.88   Mean  :25.27
## 3rd Qu.:28.51 3rd Qu.:27.74 3rd Qu.:27.00 3rd Qu.:26.47
##   Max.   :99.00   Max.   :99.00   Max.   :29.41   Max.   :27.00
##           z           y
##  Min.   :17.56  Min.   :17.34
## 1st Qu.:24.21 1st Qu.:23.86
##  Median :25.35  Median :25.04
##   Mean  :24.98   Mean  :25.85
## 3rd Qu.:26.12 3rd Qu.:25.89
##   Max.   :99.00   Max.   :99.00
```

It appears that the values for min/Q1/median/mean/3Q of all the variables are fairly close in value but the only exception to that would be the max values under variables `r` and `i` are vastly different from the others (29.41 and 27 compared to 99).

dplyr

Below, we will practice using `dplyr` package functions to select rows and/or columns of a data frame. `dplyr` is part of the `tidyverse`, and is rapidly becoming the most oft-used way of transforming data. To learn more about “transformatory” functions, read through today's class notes, then through Chapter 5 of the online version of *R for Data Science* (see the syllabus for the link, or just Google for it). In short, you can

action	function
pick features by name	<code>select()</code>
pick observations by value	<code>filter()</code>
pick observations by category	<code>group_by()</code>
create new features	<code>mutate()</code>
reorder rows	<code>arrange()</code>
collapse rows to summaries	<code>summarize()</code>

A cool thing about `dplyr` is that you can use a piping operator (`%>%`) to have the output of one function be the input to the next. And you don't have to have only `dplyr` functions within the flow; for instance, you could pipe the first two rows your data frame to `head`:

```
suppressMessages(library(tidyverse))
head(predictors[,1:2]) # base R
```

```
##           u           g
## 2873    23.5907  21.6827
## 108639  27.1252  26.2652
## 19665   27.4013  26.7235
## 87391   27.9354  27.0586
## 35772   27.7733  27.4076
## 46326   27.1742  26.9353
```

```
predictors %>% select(.,u,g) %>% head(.)      # dplyr
```

```
##           u           g
## 2873    23.5907  21.6827
## 108639  27.1252  26.2652
## 19665   27.4013  26.7235
## 87391   27.9354  27.0586
## 35772   27.7733  27.4076
## 46326   27.1742  26.9353
```

Let's do a few exercises here. Be sure to tap into, e.g., [StackOverflow](#) and *R for Data Science* for any help you may need.

Question 4

Grab all data for which `i` is less than 25 and `g` is greater than 22, and output in order of increasing `y`. (Remember: you combine conditions with `&` for “and” and `|` for “or”.) Show only the first six lines of output. Note that `head()` by default shows the first six rows of the input data frame.

```
predictors %>% arrange(.,y) %>% filter(.,(i<25 & g>22)) %>% head()
```

```
##           u           g           r           i           z           y
## 1 24.1858 22.0232 20.3907 19.5766 19.1923 18.9443
## 2 24.3510 22.1041 20.4449 19.6847 19.2919 19.0380
## 3 24.4236 22.5979 21.0056 19.8446 19.4433 19.0918
## 4 24.8989 22.8297 21.2118 20.0455 19.6235 19.2732
## 5 23.7571 22.1921 20.6919 19.9896 19.6521 19.3608
## 6 24.1374 22.1437 20.5673 19.9751 19.6583 19.4766
```

Question 5

To get a quick, textual idea of how the data are distributed: select the `g` column, apply the `round()` function, then pipe the output to `table()`. Do you notice anything strange? (It would be related to what you should have seen above.)

```
predictors %>% select(., g) %>% round(.,) %>% table(.)
```

```
## .
##  19  20  21  22  23  24  25  26  27  28  29  30  31  32  34  99
##   5   5  27  46  99 206 388 722 1224 946 247  51  13   9   1  11
```

I notice that most of the values are gathered towards the 26 or 27 values.

Time for another digression. Domain scientists are not bound by the `R` convention of using `NA` when data are “not available.” Sometimes the domain scientists will tell you what they use in place of `NA`, sometimes not. In those latter cases, one can usually infer the values. Astronomers for some reason love using -99, -9, 99, etc., to represent missing values. The 99 seen in the `r` column represents a missing value.

Question 6

Use `filter()` to determine how many rows contain 99's. While more “elegant” solutions may exist, here you should combine logical operators.

```
filter(predictors, u == 99 | g == 99 | r == 99 | i == 99 | z == 99 | y == 99)
```

```
##           u           g           r           i           z           y
## 1 99.0000 28.6780 27.9336 26.5562 25.0876 24.8142
## 2 99.0000 26.9491 25.8114 24.8964 24.6316 24.5645
## 3 99.0000 29.6675 27.7214 26.7440 26.5730 25.9962
## 4 99.0000 28.0462 27.8069 26.9388 27.5762 27.8884
## 5 28.2424 29.4176 28.1202 26.6837 26.2754 99.0000
```

## 6	99.0000	28.9702	27.8574	26.1651	25.0758	24.5420
## 7	99.0000	27.6859	27.5021	26.6976	27.2323	26.0221
## 8	99.0000	31.6617	27.5083	25.8405	24.8862	24.0097
## 9	99.0000	27.4599	25.9715	25.0598	24.0858	23.3608
## 10	99.0000	28.8544	27.0935	26.1411	26.0946	28.1544
## 11	99.0000	27.9855	27.4880	26.6029	26.1607	25.4544
## 12	99.0000	27.3952	26.8879	26.7157	26.1964	26.0210
## 13	99.0000	28.0005	27.4545	26.8872	26.1570	26.2312
## 14	99.0000	28.0421	27.5552	26.9130	26.5365	26.9885
## 15	99.0000	27.1915	27.2267	26.1779	25.9988	25.8512
## 16	99.0000	29.2627	27.9059	26.8753	26.6095	26.5269
## 17	99.0000	27.2487	27.1684	26.6990	25.9979	25.7881
## 18	26.8558	26.5724	26.6476	26.9707	26.8069	99.0000
## 19	99.0000	27.9055	26.8069	26.3458	27.0690	99.0000
## 20	99.0000	27.6919	26.7320	25.9597	24.9550	24.6838
## 21	99.0000	26.3633	25.7265	25.4207	25.3231	25.0933
## 22	99.0000	27.6353	27.8968	26.8258	26.5430	25.7629
## 23	99.0000	29.9483	27.8641	26.9712	27.0348	27.7180
## 24	99.0000	28.1164	27.8167	26.5014	26.1962	25.3223
## 25	27.5885	27.6860	27.3862	26.8267	26.6587	99.0000
## 26	99.0000	27.4486	25.8067	24.6466	23.8021	23.4049
## 27	99.0000	27.7037	27.1968	26.6516	26.0970	25.8503
## 28	99.0000	27.6039	27.0312	26.2584	26.0401	25.7453
## 29	27.2885	27.1313	27.4207	26.8427	28.0921	99.0000
## 30	26.9276	27.2714	27.3821	26.8622	26.4800	99.0000
## 31	99.0000	27.2852	26.7060	26.3534	25.7981	25.6726
## 32	99.0000	28.0583	27.2086	26.4782	26.1971	26.0446
## 33	26.8580	27.3662	27.1260	26.9618	26.3097	99.0000
## 34	99.0000	27.7507	27.4130	26.9389	26.3294	25.7272
## 35	99.0000	27.5086	26.5260	26.3163	26.0648	26.1637
## 36	99.0000	31.9366	28.5181	26.9738	26.4255	25.3278
## 37	99.0000	26.9427	25.5862	24.8519	24.5059	24.2749
## 38	99.0000	28.3338	27.4182	26.5812	27.7019	25.8192
## 39	99.0000	27.7702	27.3140	26.9685	26.3725	27.2582
## 40	27.6520	27.1784	27.0018	26.9962	27.3063	99.0000
## 41	26.4966	26.8210	26.7531	26.6547	26.4410	99.0000
## 42	99.0000	26.8532	25.1277	23.9400	23.1553	22.8988
## 43	99.0000	28.2404	27.7774	26.9972	26.7679	27.3974
## 44	99.0000	28.1033	27.5268	26.9988	26.7559	99.0000
## 45	99.0000	29.0893	27.8860	26.5891	25.7091	25.0496
## 46	99.0000	28.6602	27.9144	26.8388	27.7917	26.5771
## 47	27.3697	27.9831	27.1880	26.8935	26.6584	99.0000
## 48	99.0000	29.0576	28.1688	26.8469	26.5895	25.5750
## 49	29.5210	99.0000	27.6145	26.8541	26.2860	26.8439
## 50	99.0000	27.5433	26.7329	26.2622	26.6790	27.5520
## 51	99.0000	26.5642	26.2132	25.5084	24.9450	24.1974
## 52	99.0000	27.4373	26.6819	26.8474	26.2551	25.7575
## 53	99.0000	26.1293	25.1305	24.7248	24.4048	24.2408
## 54	99.0000	27.9189	27.3949	25.6821	24.9547	23.9676
## 55	99.0000	28.3936	26.5494	25.9686	25.5711	25.4564
## 56	26.8888	26.9189	27.2544	26.6831	26.5482	99.0000
## 57	99.0000	28.4109	27.1770	26.4427	25.6346	26.1790
## 58	99.0000	27.9385	27.3819	26.7355	26.1163	26.6924
## 59	99.0000	27.4025	26.9224	25.9742	25.6605	24.7633
## 60	99.0000	28.0042	27.2219	26.2793	25.7110	25.6499
## 61	99.0000	27.7389	27.6257	26.6188	26.8936	25.5326
## 62	99.0000	27.9097	26.3035	25.4628	24.9899	24.5603
## 63	99.0000	27.6662	27.5048	26.9562	26.4251	27.8957
## 64	99.0000	28.0817	26.4662	25.9236	25.6338	25.4230
## 65	99.0000	26.9310	26.3427	26.0572	25.7897	25.7088
## 66	99.0000	27.7969	26.7649	26.0797	25.4415	26.5222
## 67	26.8091	27.1051	26.3926	26.0878	25.7855	99.0000
## 68	99.0000	99.0000	27.3701	26.3858	25.7402	26.6798
## 69	29.0702	28.9576	27.5533	26.9678	27.1043	99.0000
## 70	99.0000	27.7350	26.7135	26.4387	26.1225	25.4259
## 71	99.0000	29.2276	27.7069	26.5335	25.6737	24.7534
## 72	99.0000	27.3152	25.8600	25.4248	25.1431	25.0860
## 73	99.0000	28.9241	27.3025	26.1166	25.5515	25.1762
## 74	99.0000	28.2692	28.1055	26.7215	26.2304	28.2854
## 75	99.0000	28.0260	26.2920	25.8429	25.2210	25.1695
## 76	29.8229	99.0000	27.8689	26.8375	26.8790	28.0045
## 77	99.0000	27.7977	28.0113	26.9533	27.4551	27.0326
## 78	99.0000	27.7499	26.8824	26.9620	26.8278	27.0841
## 79	27.5517	27.7506	27.1375	26.8596	26.3696	99.0000
## 80	99.0000	28.3210	27.4296	26.9180	26.4562	28.8782
## 81	99.0000	26.9242	25.4562	24.6548	24.2960	24.0168
## 82	99.0000	27.7626	26.7750	26.1748	25.5985	25.1347
## 83	99.0000	27.1086	26.4240	25.6322	25.1824	25.0011
## 84	99.0000	27.9010	26.8127	26.0845	25.3389	25.0077

##	85	99.0000	27.5419	27.7182	26.9461	26.3415	26.6412
##	86	99.0000	27.9860	25.8037	24.7908	23.7876	23.1590
##	87	28.8198	99.0000	29.4085	26.7994	25.8796	25.0563
##	88	99.0000	31.0968	27.7944	26.6324	25.8724	24.8197
##	89	27.1364	27.8245	27.4346	26.9374	26.5091	99.0000
##	90	99.0000	28.9236	27.9968	26.9293	26.6381	26.1188
##	91	99.0000	29.5798	27.3619	26.7347	25.7971	25.3122
##	92	99.0000	27.5683	27.1008	26.5321	26.4091	25.7739
##	93	26.4120	27.4219	27.1061	26.6317	26.5921	99.0000
##	94	99.0000	28.9582	27.7671	26.1450	25.2890	24.7592
##	95	27.6410	27.1336	26.8586	26.8224	26.7147	99.0000
##	96	99.0000	27.8768	26.7923	25.3881	24.2431	23.4894
##	97	99.0000	28.0802	26.4441	25.6929	25.3049	25.9983
##	98	99.0000	28.0348	26.9674	26.2725	26.1820	26.7111
##	99	28.9317	28.1823	27.1905	26.6717	26.6680	99.0000
##	100	99.0000	27.4786	27.4813	26.9844	26.7496	27.0887
##	101	99.0000	27.5749	27.3549	26.9983	26.9427	26.7748
##	102	99.0000	27.2407	26.6059	26.1456	26.0179	25.8543
##	103	99.0000	27.6998	26.8209	25.8500	25.3841	24.7142
##	104	99.0000	28.1425	26.8161	26.1785	26.8025	25.7628
##	105	99.0000	27.3962	27.0956	26.6932	25.7213	25.5488
##	106	27.4992	27.5320	26.9905	26.7043	26.8213	99.0000
##	107	99.0000	28.6674	26.5324	26.0616	25.6125	26.0007
##	108	99.0000	29.5516	27.3413	26.5399	25.8255	25.5565
##	109	99.0000	26.7387	25.0506	23.8922	22.9906	22.5569
##	110	99.0000	27.9980	27.1037	26.7060	26.0470	25.4122
##	111	99.0000	27.9249	27.4178	26.1729	25.4474	25.5452
##	112	99.0000	28.7600	27.4241	26.8660	25.8095	25.3845
##	113	27.4529	27.1347	26.3360	26.4542	26.3333	99.0000
##	114	26.6110	26.9796	27.0209	26.4039	26.5694	99.0000
##	115	99.0000	27.9003	26.7425	25.3988	24.7536	23.7086
##	116	99.0000	27.0067	26.1140	25.6883	26.0010	25.0826
##	117	28.0302	27.9501	27.4237	26.8163	26.8667	99.0000
##	118	28.3342	28.7335	27.5282	26.6505	26.6873	99.0000
##	119	99.0000	28.4254	26.8579	26.3785	26.4718	26.2101
##	120	27.3697	27.7864	26.9123	26.5626	26.6821	99.0000
##	121	99.0000	29.0820	27.1303	26.3621	26.1748	27.1242
##	122	99.0000	27.7119	27.6429	26.8571	26.3426	25.9335
##	123	99.0000	27.4873	26.6511	26.1783	26.1334	26.9426
##	124	99.0000	28.6627	27.6740	26.7204	26.5136	26.3897
##	125	28.8940	28.6044	28.6732	26.8906	27.1556	99.0000
##	126	99.0000	27.7340	27.3181	26.4074	25.5253	25.2635
##	127	99.0000	29.1339	28.8794	26.8772	26.9426	26.1740
##	128	99.0000	28.4380	27.4526	26.7059	25.9577	24.9595
##	129	99.0000	27.7017	27.0804	26.2573	25.9126	25.7573
##	130	99.0000	27.5068	26.1209	25.5807	25.3409	25.2270
##	131	99.0000	28.0440	27.4448	26.6983	26.5246	27.3021
##	132	99.0000	28.4915	27.0320	26.6659	26.8206	26.4476
##	133	27.2533	28.1199	27.0328	26.8448	26.7656	99.0000
##	134	99.0000	29.7592	26.6953	25.1093	24.3386	23.3157
##	135	27.3255	27.6360	26.7536	26.3409	26.2196	99.0000
##	136	99.0000	28.1802	27.5477	26.9497	26.5421	26.4742
##	137	99.0000	27.1424	27.0590	26.7692	25.9427	25.2998
##	138	99.0000	28.7199	27.8481	26.9681	26.8091	25.6428
##	139	99.0000	27.5622	27.2678	26.2548	25.5316	25.5273
##	140	99.0000	28.0848	25.9770	24.4278	23.6644	22.7077
##	141	99.0000	29.3863	27.9953	26.9633	26.6782	25.7341
##	142	99.0000	27.7675	27.2195	26.3149	25.8818	25.1878
##	143	99.0000	27.7140	26.9408	26.3488	26.6626	27.0939
##	144	99.0000	27.1892	25.9477	25.0092	24.6537	24.2532
##	145	99.0000	27.7458	27.5737	26.7477	25.8938	25.7111
##	146	99.0000	27.5548	27.0364	26.2739	25.8051	26.3060
##	147	99.0000	28.1422	27.6752	26.8461	27.1171	27.1066
##	148	29.1859	28.8674	28.1948	26.8235	26.6071	99.0000
##	149	28.3014	28.1922	27.4364	26.9406	26.7667	99.0000
##	150	99.0000	26.6513	26.0664	25.2647	24.6190	23.8856
##	151	99.0000	27.7664	26.9574	26.4268	26.3690	28.4564
##	152	99.0000	28.3670	27.8617	26.9744	28.4575	26.4952
##	153	99.0000	28.9414	26.7716	25.6520	25.1129	24.5915
##	154	99.0000	27.9258	27.7127	26.8954	27.0026	26.0930
##	155	99.0000	27.5596	27.1249	26.6848	26.5849	26.7709
##	156	99.0000	28.7772	28.3713	26.5697	25.6127	24.4212
##	157	99.0000	27.2349	26.8670	26.4324	25.7554	26.7323
##	158	99.0000	27.9192	27.0263	26.2682	26.0343	25.2798
##	159	99.0000	27.8609	27.1282	26.6852	26.1268	25.6724
##	160	99.0000	26.9969	25.9203	25.6491	25.3973	25.3484
##	161	99.0000	27.4803	26.9257	26.5157	27.3678	26.6744
##	162	99.0000	28.4391	27.4410	26.2781	25.7716	25.8267
##	163	99.0000	28.6147	27.1909	26.3471	26.2417	25.7086

##	164	99.0000	27.4922	26.4017	25.7845	25.4546	25.6549
##	165	99.0000	29.0448	26.9272	26.0920	25.8169	25.0309
##	166	26.7510	27.0151	27.1820	26.7929	27.0406	99.0000
##	167	99.0000	28.4451	27.2330	26.3521	26.8097	26.0044
##	168	99.0000	27.3150	26.5922	26.4153	26.2156	25.9297
##	169	99.0000	27.5778	27.1194	26.9583	26.3030	25.8568
##	170	99.0000	28.7474	27.1213	26.4954	25.9398	25.8240
##	171	27.6752	27.2217	26.7694	26.6983	27.0723	99.0000
##	172	26.5028	26.8674	27.0288	26.8500	26.9765	99.0000
##	173	99.0000	27.0841	26.6439	26.0485	25.7538	25.3588
##	174	99.0000	29.9117	27.9072	26.2165	25.3948	24.3354
##	175	99.0000	28.4108	27.9219	26.8844	27.1940	27.1840
##	176	99.0000	28.0849	27.4469	26.9116	26.4834	25.7376
##	177	99.0000	27.0583	27.0172	26.3005	26.4769	25.9733
##	178	99.0000	27.9800	26.8658	25.4582	24.4605	23.9279
##	179	29.2204	29.7032	27.6312	26.9634	26.5207	99.0000
##	180	99.0000	28.5472	27.1901	26.7941	26.6991	26.3129
##	181	99.0000	99.0000	28.4684	26.2745	25.4313	24.9216
##	182	99.0000	28.1017	27.6134	26.7696	26.0543	25.3117
##	183	99.0000	28.2624	26.4014	25.7131	25.3573	25.0308
##	184	27.2341	27.7774	27.3483	26.6703	26.2699	99.0000
##	185	99.0000	27.6836	27.6843	26.6894	26.6672	27.0305
##	186	99.0000	27.4105	26.9156	26.0846	26.0381	26.2045
##	187	99.0000	28.5658	27.9488	26.1077	24.8504	24.5413
##	188	99.0000	29.0244	27.8755	26.7335	26.3215	25.9445
##	189	99.0000	27.5600	26.6915	26.3814	26.2598	25.8686
##	190	99.0000	26.6721	25.7933	25.4323	25.3155	24.8057
##	191	99.0000	26.8099	26.6873	26.2967	25.8276	25.4221
##	192	99.0000	30.4456	28.6172	26.9456	26.9728	26.7689
##	193	99.0000	29.9999	27.4384	26.8917	26.9435	26.0931
##	194	99.0000	27.4496	27.6478	26.8702	26.5615	26.5755
##	195	29.6378	99.0000	28.2308	26.8221	26.1719	25.4217
##	196	99.0000	28.1680	27.0915	26.6410	25.3886	24.7219
##	197	99.0000	27.9950	26.6628	26.0289	25.6592	25.5975
##	198	99.0000	28.0867	27.3440	26.4200	25.4731	25.1639
##	199	99.0000	27.5586	27.7168	25.8178	25.3389	24.0704
##	200	99.0000	27.4429	26.7317	25.9358	26.1212	27.8906
##	201	99.0000	28.0055	26.4339	25.5031	25.2689	25.3316
##	202	99.0000	27.7333	27.0378	26.4393	25.9442	25.9438
##	203	99.0000	29.3973	28.3148	26.8422	27.3749	26.6960
##	204	99.0000	27.6721	26.6729	25.7315	25.3585	24.8993
##	205	99.0000	26.7089	26.3805	26.1001	26.2355	25.1692
##	206	99.0000	27.4731	26.6035	26.1245	26.0196	25.2237
##	207	28.6918	27.8550	26.9189	26.8973	26.5940	99.0000
##	208	99.0000	28.6361	27.5266	26.9829	26.8182	26.1140
##	209	99.0000	28.6544	27.9728	26.5714	25.2310	24.8036
##	210	99.0000	28.4724	27.0335	26.6030	26.1936	26.0789
##	211	99.0000	27.7808	27.0428	26.4076	26.3044	27.6315
##	212	99.0000	28.0232	26.5595	26.2015	25.6471	26.5574
##	213	99.0000	28.2456	27.5837	25.7745	24.4913	23.8499
##	214	99.0000	33.9851	27.8138	26.5209	25.8356	25.3668
##	215	99.0000	26.8103	25.9892	25.0869	24.6748	24.7374
##	216	99.0000	28.3315	27.3751	26.1979	25.4084	24.8762
##	217	30.4207	99.0000	27.6028	26.7539	25.9280	25.3908
##	218	99.0000	28.3971	27.4129	26.8452	26.8406	26.4841
##	219	99.0000	26.9397	26.2635	26.0253	25.8270	25.5940
##	220	99.0000	29.0731	27.3019	25.8715	25.0456	24.4536
##	221	99.0000	26.9518	26.1148	25.6227	25.4036	25.0937
##	222	99.0000	31.7990	27.5102	25.7700	25.0462	24.0571
##	223	99.0000	28.2810	27.5228	26.5477	25.7008	25.7363
##	224	99.0000	28.1028	27.0114	25.6886	25.2543	24.7066
##	225	99.0000	28.1803	27.2082	26.3867	25.4609	25.2667
##	226	99.0000	25.9277	24.1938	22.9305	22.3620	22.0390
##	227	99.0000	28.5659	26.9822	26.3628	25.2553	24.9170
##	228	99.0000	27.8546	27.1754	26.6532	26.5850	25.7151
##	229	99.0000	28.7061	27.4154	26.5243	25.4530	24.9021
##	230	99.0000	29.0581	28.4120	26.9514	26.3470	26.0822
##	231	99.0000	28.2002	27.7992	26.9005	26.7069	27.3819
##	232	99.0000	27.3764	26.7629	26.0074	26.0242	25.7550
##	233	99.0000	28.6043	27.4070	26.1105	25.7659	24.9654
##	234	99.0000	27.5380	26.9120	26.0759	26.0959	26.3677
##	235	99.0000	28.8998	27.6247	26.6472	25.9913	25.6081
##	236	27.2460	27.4796	27.6002	26.9886	26.6549	99.0000
##	237	99.0000	29.2577	26.9963	26.7559	26.6440	25.7256
##	238	99.0000	28.7112	27.5077	25.8392	24.4433	23.6582
##	239	99.0000	27.8971	26.7753	25.8339	24.8345	24.0954
##	240	28.6032	28.3588	27.9604	26.6037	26.2190	99.0000
##	241	99.0000	27.5762	27.1632	26.7361	27.0374	26.0378
##	242	29.4680	28.5342	27.4187	26.7581	99.0000	26.7209

##	243	99.0000	27.5777	27.2598	26.5432	25.9141	25.7490
##	244	99.0000	28.0208	27.6368	26.8787	26.4108	27.2863
##	245	99.0000	30.2574	27.9939	26.9124	25.9262	25.3056
##	246	99.0000	28.3161	26.7975	26.0306	25.9470	25.5136
##	247	26.3712	26.6383	26.5301	26.6072	27.1113	99.0000
##	248	29.6089	99.0000	27.5417	26.4395	24.9132	23.9021
##	249	26.5482	27.0362	27.1281	26.8698	27.0271	99.0000
##	250	99.0000	27.7011	27.5322	26.6771	27.1409	26.1957
##	251	99.0000	27.9477	27.0016	26.3699	26.0316	25.6524
##	252	99.0000	27.2472	26.9193	26.5953	25.9911	25.3603
##	253	99.0000	28.9623	28.3353	26.9242	26.6603	26.2080
##	254	28.7016	27.8189	27.6557	26.9453	27.3066	99.0000
##	255	99.0000	29.5320	27.8361	26.3583	25.9582	25.1855
##	256	99.0000	26.8026	26.9736	26.9635	27.8943	27.1198
##	257	99.0000	27.4644	26.9503	25.4278	24.6380	23.9629
##	258	29.6100	27.9968	27.0481	26.6015	27.5598	99.0000
##	259	99.0000	28.2986	26.6068	26.6274	25.8428	26.8240
##	260	99.0000	27.4288	26.1413	25.6441	25.4107	24.8272
##	261	99.0000	28.4136	26.7054	26.2354	25.8256	25.2264
##	262	99.0000	28.8666	27.5841	26.6773	25.8543	25.3275
##	263	99.0000	28.3029	27.3941	26.5472	25.5577	25.2216
##	264	99.0000	28.0529	27.5842	26.9832	26.4640	26.7158
##	265	99.0000	27.4848	26.8887	26.0769	25.3706	24.9299
##	266	26.0537	27.0357	26.7900	26.9462	27.0514	99.0000
##	267	99.0000	27.1337	26.1319	26.0896	25.7025	25.8231
##	268	29.1837	28.4274	27.6472	26.9602	27.0405	99.0000
##	269	99.0000	27.0664	25.7486	24.6913	23.7045	22.9642
##	270	99.0000	28.7339	28.4983	26.9964	26.0833	25.0020
##	271	26.3111	26.5290	26.3349	26.0722	26.4831	99.0000
##	272	99.0000	28.3951	27.6204	26.8903	27.7157	26.3177
##	273	99.0000	28.2793	27.6415	26.7791	26.0152	26.4021
##	274	99.0000	26.8188	25.7216	25.3734	25.0344	25.1237
##	275	99.0000	27.5000	25.7849	24.6325	24.1313	23.7948
##	276	99.0000	27.9281	27.5815	26.3713	26.1188	25.7199
##	277	99.0000	28.0439	27.4243	26.9074	26.4755	27.1746
##	278	99.0000	28.5056	27.2215	26.4695	25.8518	26.2602
##	279	99.0000	28.6570	27.3552	25.7299	25.0515	24.0030
##	280	99.0000	99.0000	27.2825	25.6091	24.8518	23.7762
##	281	99.0000	28.5252	27.4908	26.8960	26.4872	28.1416
##	282	99.0000	27.8071	26.9586	26.5274	26.6709	26.6057
##	283	99.0000	28.5850	27.4920	26.9283	26.5081	26.3294
##	284	99.0000	28.4575	27.8602	26.6572	25.0343	24.3447
##	285	99.0000	28.2650	27.2299	26.7090	27.0568	27.0125
##	286	99.0000	28.3072	27.1778	26.6971	25.9930	26.4963
##	287	99.0000	28.1074	27.5227	26.2566	25.9975	25.4439
##	288	99.0000	27.8052	26.6768	25.5032	24.8763	24.2776
##	289	99.0000	28.3168	27.1430	26.6211	25.8126	25.3086
##	290	99.0000	27.8701	27.7421	26.5252	26.3078	27.1996
##	291	99.0000	28.1030	27.1267	25.3650	24.3450	23.6450
##	292	99.0000	29.3592	27.4845	26.5606	25.5827	24.5222
##	293	99.0000	28.7100	26.8444	25.4263	24.6179	23.7596
##	294	99.0000	27.0447	25.4409	24.3233	23.8586	23.6005
##	295	99.0000	25.9915	23.6939	22.5238	21.6267	21.2369
##	296	26.7212	26.2997	26.1855	26.3218	26.5599	99.0000
##	297	99.0000	28.2388	27.1981	25.7482	24.9018	24.3475
##	298	99.0000	28.0195	27.0341	26.3287	26.9525	26.7723
##	299	99.0000	26.6386	25.1758	24.3432	24.0521	23.9400
##	300	99.0000	28.5306	27.1089	26.6905	27.2118	26.6838
##	301	99.0000	28.5696	27.3547	26.6943	26.3661	26.4396
##	302	99.0000	28.5319	27.6757	26.9416	27.2614	25.9015
##	303	28.3853	28.0667	27.2693	26.9243	26.8958	99.0000
##	304	99.0000	28.0621	27.6907	26.6667	26.4460	26.0539
##	305	99.0000	28.8411	26.8689	25.9389	25.1837	24.4777
##	306	99.0000	29.0139	27.5485	26.2549	25.1253	24.6412
##	307	99.0000	27.3296	26.2614	26.0184	25.8761	26.0711
##	308	99.0000	27.2802	26.4248	25.7873	25.7276	25.5928
##	309	28.0207	28.2760	26.9078	26.5237	26.3310	99.0000
##	310	99.0000	29.4646	28.2446	26.1901	25.0739	24.6960
##	311	99.0000	28.4255	26.9881	25.9372	25.6150	25.8983
##	312	99.0000	28.0705	27.1251	26.6891	26.4389	27.5419
##	313	99.0000	28.0580	26.8266	25.6470	25.5789	25.0411
##	314	99.0000	28.4668	26.4752	24.6619	23.9355	22.9788
##	315	99.0000	30.1799	27.2947	26.1049	26.0913	26.3267
##	316	99.0000	27.2662	26.8013	25.6334	24.7680	24.2629
##	317	27.8182	27.2965	26.9840	26.7551	26.3898	99.0000
##	318	99.0000	31.0891	27.4676	26.7506	26.4178	26.2874
##	319	99.0000	28.9994	27.4067	26.3966	26.1556	25.1814
##	320	99.0000	28.4061	27.5842	26.8103	26.1746	27.1475
##	321	99.0000	27.8410	27.1702	26.5047	25.8961	25.0264

```
## 322 29.2512 28.2609 27.3140 26.7538 26.3416 99.0000
## 323 99.0000 28.5720 27.3136 26.3180 25.7251 25.2074
## 324 99.0000 28.6055 28.2953 26.8313 26.7966 27.2772
## 325 99.0000 29.4413 27.5653 26.1894 25.1783 24.3072
## 326 99.0000 27.1060 26.7023 25.9375 25.7711 99.0000
## 327 99.0000 27.7945 26.3486 25.9263 25.5811 25.2784
## 328 99.0000 99.0000 27.5420 26.6843 26.6117 26.5000
## 329 99.0000 26.2602 25.4698 25.2358 25.0633 24.4537
## 330 99.0000 26.7565 25.1185 23.9627 23.3129 22.9985
## 331 99.0000 28.0244 26.9191 26.3968 26.2044 26.9076
## 332 26.0975 26.0556 25.9905 26.1397 25.6582 99.0000
## 333 30.0745 99.0000 28.1605 26.9924 26.0831 25.5217
## 334 30.5622 28.2569 27.9610 26.9010 27.2648 99.0000
## 335 99.0000 28.9288 27.5332 26.9058 27.1021 99.0000
## 336 99.0000 28.8587 27.5034 26.9004 26.4127 26.5141
## 337 99.0000 26.6583 26.1688 25.4943 25.5130 25.2431
## 338 99.0000 27.5696 26.8552 24.9924 24.0340 23.4926
## 339 99.0000 30.2457 27.7108 26.5878 25.7533 25.1338
## 340 99.0000 30.5332 27.7512 25.7465 24.7686 23.8829
## 341 99.0000 27.8694 27.0542 25.6965 25.2079 24.9950
## 342 28.0125 27.2404 26.8328 26.9690 27.9012 99.0000
## 343 99.0000 28.9968 27.4270 26.7584 26.6911 26.0676
## 344 99.0000 28.5993 28.3519 26.1441 24.9664 24.5721
## 345 99.0000 29.4695 27.8539 26.7234 26.5418 26.2814
## 346 99.0000 28.7382 27.4805 26.8453 26.8886 27.3199
## 347 99.0000 26.8454 26.0460 25.8361 25.6352 25.4301
## 348 99.0000 27.5543 27.5395 26.6123 26.6051 25.9366
## 349 99.0000 27.7551 27.0721 26.2980 26.1158 25.8412
## 350 99.0000 27.5252 26.6769 26.5213 26.1450 25.9935
## 351 30.7286 29.1889 28.8647 26.7705 26.2755 99.0000
## 352 99.0000 26.7247 25.4493 25.0312 24.7203 24.7662
## 353 27.2670 27.8356 26.9125 26.7588 26.4504 99.0000
## 354 99.0000 27.9326 27.0167 26.1865 25.7564 25.9767
## 355 99.0000 26.8586 26.2749 25.9312 25.3933 25.4439
## 356 99.0000 28.0959 27.6029 26.5694 26.7596 26.1950
## 357 99.0000 28.7895 27.0075 25.6891 25.0484 25.0065
## 358 99.0000 28.2926 28.1430 26.7556 26.4543 25.8913
## 359 99.0000 27.4327 26.8280 25.9289 25.5679 25.9815
## 360 99.0000 27.6314 27.1382 26.7832 26.1096 25.9505
## 361 99.0000 29.1897 28.6001 26.9661 26.7404 28.3865
## 362 99.0000 28.5592 27.0770 26.2611 25.5581 25.3595
## 363 99.0000 28.3712 28.8582 26.8852 27.5485 99.0000
## 364 99.0000 27.7608 26.7240 25.8200 25.2027 25.0929
## 365 99.0000 28.3109 27.9147 26.9173 26.7691 26.4529
## 366 99.0000 29.1972 27.2662 26.7291 26.6086 26.9225
## 367 28.2142 27.5792 27.0733 26.3357 26.3038 99.0000
## 368 99.0000 28.8527 27.6260 26.5174 26.1776 26.2737
## 369 99.0000 28.8072 27.3290 26.9471 26.4490 26.6890
## 370 99.0000 27.6576 26.8387 25.7242 24.8134 24.4102
## 371 28.6776 28.2298 27.4347 26.7283 25.8204 99.0000
## 372 99.0000 30.3153 27.6524 26.3468 26.1441 25.8348
## 373 99.0000 29.1308 28.5872 26.6596 26.0185 24.8138
## 374 99.0000 26.6895 26.2713 26.0165 25.9084 26.5422
## 375 99.0000 28.1376 27.4308 26.6358 26.5049 25.8847
## 376 99.0000 27.7632 27.2195 26.5366 25.6805 24.9226
## 377 99.0000 28.1528 27.5626 26.3410 26.2606 26.5378
## 378 99.0000 28.1567 26.9710 26.3167 25.6123 26.0151
## 379 99.0000 27.0538 26.5696 25.5908 25.2807 25.2634
## 380 99.0000 28.3111 26.3006 25.0260 24.3479 23.3789
## 381 99.0000 29.1517 27.9890 26.8582 26.7872 27.4275
## 382 99.0000 28.6672 28.0722 26.6993 26.3103 26.0620
## 383 99.0000 27.7800 27.2043 26.5971 26.1963 27.1725
## 384 99.0000 27.1515 25.9019 24.9853 24.1083 23.7306
## 385 26.0782 25.8773 25.8979 25.8432 26.2471 99.0000
## 386 99.0000 28.1931 27.3915 26.3332 26.3611 25.7887
## 387 99.0000 27.3314 26.8176 26.1345 26.1442 25.7709
## 388 99.0000 29.1517 28.5663 26.8733 26.7487 25.2981
## 389 99.0000 27.8645 27.6806 26.5842 26.1292 25.4034
## 390 99.0000 27.9446 27.1401 26.4295 26.4566 26.6194
## 391 99.0000 27.1894 26.2314 25.8520 25.5391 25.9073
## 392 99.0000 29.3088 26.6906 25.3966 24.8108 24.7654
## 393 99.0000 28.2762 26.9750 26.5575 26.6851 28.7832
```

Question 7

Now repeat Q6 (in a sense), and remove all the rows that contain 99's, saving the new data frame as `pred.new`.


```
pred.new <- filter(predictors, u != 99 | g != 99 | r != 99 | i != 99 | z != 99 | y != 99)
```

```
pred.new
```

##	u	g	r	i	z	y
## 1	23.5907	21.6827	20.0759	19.4611	19.0885	18.8831
## 2	27.1252	26.2652	25.5893	25.0175	24.6461	24.0259
## 3	27.4013	26.7235	26.6074	26.5520	25.7460	25.4095
## 4	27.9354	27.0586	26.3402	25.6980	25.0166	24.2701
## 5	27.7733	27.4076	26.0681	25.3545	25.0698	24.9984
## 6	27.1742	26.9353	26.2515	26.2313	26.0436	25.3952
## 7	25.3228	24.9353	24.5632	24.1697	23.5369	23.2099
## 8	27.4160	27.5820	26.8848	26.1395	25.3435	25.8520
## 9	27.2069	27.4311	25.5344	24.4186	23.5194	23.0643
## 10	28.8780	27.5836	26.3113	26.1606	25.8048	26.1740
## 11	99.0000	28.6780	27.9336	26.5562	25.0876	24.8142
## 12	28.3921	27.9233	26.8904	26.3605	26.4174	25.7329
## 13	26.6773	26.0998	25.2068	24.9732	24.8651	24.6902
## 14	27.2278	26.3539	25.9111	25.2846	25.0043	24.1177
## 15	26.9538	27.1541	27.3460	26.5548	25.9525	25.3050
## 16	26.8456	27.0187	26.1422	25.4837	25.5677	25.3532
## 17	28.0052	27.7457	26.4383	26.0616	25.7784	26.1672
## 18	25.2085	25.1535	24.9196	24.8335	24.6124	24.3069
## 19	29.2546	30.8355	27.7408	26.8231	25.9516	26.2909
## 20	26.1497	26.2192	26.0955	25.6397	25.4075	25.0130
## 21	26.5509	26.4818	25.5536	25.2270	25.2445	24.9525
## 22	24.5290	23.9741	23.0932	22.6841	22.4904	22.2640
## 23	28.2080	28.0037	26.2904	24.9391	24.4180	24.1830
## 24	28.9982	28.8441	27.2527	26.5719	25.5759	25.8044
## 25	24.8240	24.8536	24.6835	24.5371	24.6220	24.6840
## 26	27.0908	27.5066	27.4050	26.4532	26.6131	26.2317
## 27	26.6189	25.2088	23.8330	23.3868	23.1178	23.0027
## 28	26.4905	26.0486	25.3823	24.7199	24.4525	23.6197
## 29	28.3465	27.4630	26.5717	25.7214	24.7746	23.9812
## 30	28.4209	28.2880	27.4080	26.6403	26.5285	26.5848
## 31	31.5726	27.3192	27.1310	26.5103	26.4225	25.6176
## 32	28.1489	27.8916	27.5010	26.6906	25.6706	26.5114
## 33	29.1256	27.9763	27.0292	26.7976	26.9672	26.2662
## 34	27.6598	26.3224	25.8027	25.7159	25.4798	25.2686
## 35	27.1932	26.1313	25.5652	24.8539	24.2522	24.1523
## 36	99.0000	26.9491	25.8114	24.8964	24.6316	24.5645
## 37	26.9505	26.5753	26.0784	25.4054	24.8646	24.5873
## 38	26.6317	26.6204	25.8408	25.3731	25.2625	25.2317
## 39	23.7494	22.7033	21.6606	21.1618	20.8411	20.5920
## 40	24.8429	23.5477	22.6904	22.2319	22.0422	21.8155
## 41	27.5204	27.7285	26.9929	26.6925	26.6048	26.3440
## 42	99.0000	29.6675	27.7214	26.7440	26.5730	25.9962
## 43	27.5168	29.4731	27.4634	26.2148	25.6620	25.4156
## 44	99.0000	28.0462	27.8069	26.9388	27.5762	27.8884
## 45	26.2940	26.0667	25.7064	25.3692	24.7137	24.4754
## 46	28.3053	26.8101	25.7267	24.9689	24.8305	24.8043
## 47	27.7512	26.9047	26.5232	25.9890	25.4380	26.1799
## 48	26.1591	24.9571	23.4138	22.3028	21.9225	21.5656
## 49	27.0744	26.0737	25.2942	24.8377	24.7759	24.6305
## 50	25.7862	25.1911	24.6239	24.4655	24.4099	24.3539
## 51	26.3847	26.0648	25.8074	25.2263	24.7896	23.8893
## 52	27.8197	28.0456	27.0652	26.5326	25.9764	28.1821
## 53	25.6431	25.6287	25.4379	25.0704	24.7970	24.5576
## 54	27.2264	26.6165	25.6304	24.9386	24.0875	23.6585
## 55	28.8194	28.2238	27.6085	26.0116	25.2318	24.4592
## 56	27.2091	25.9012	24.3842	23.1960	22.7635	22.4243
## 57	26.5874	25.9783	25.5048	24.9143	24.5030	23.9024
## 58	26.5267	26.2025	24.9746	24.4122	24.2170	23.9205
## 59	25.7664	25.0661	23.9577	23.2849	23.1373	22.8929
## 60	28.1760	27.3996	27.4028	26.8932	27.2581	25.7115
## 61	26.3381	26.1001	25.6144	25.5268	25.3847	25.5478
## 62	26.9933	26.1939	25.5789	24.8870	24.2727	24.0573
## 63	27.2710	26.0094	25.5536	25.0561	24.6234	24.4312
## 64	28.1292	27.0356	24.9791	23.7826	22.8522	22.0419
## 65	29.1440	28.2120	27.0214	26.8139	26.6610	26.7252
## 66	26.6734	26.9618	26.7649	26.5744	26.6068	25.5605
## 67	26.7420	26.4678	26.1872	25.9182	25.4729	24.9277
## 68	27.5620	27.4842	26.3191	25.7195	25.0682	24.5815
## 69	25.5645	24.6126	23.9909	23.7564	23.6159	23.5673
## 70	26.2779	26.4544	25.8065	25.3685	25.4078	24.9253
## 71	28.2189	26.6906	26.3069	25.6792	25.4269	26.4898
## 72	25.5887	25.1474	24.6842	24.4974	24.3467	24.3638

## 73	28.0681	27.6013	26.9489	26.4647	25.6820	25.0125
## 74	25.2554	24.8657	24.0349	23.7949	23.6688	23.5896
## 75	26.1032	25.3681	23.4371	22.3180	21.4136	20.9592
## 76	26.2473	25.8953	25.1163	24.5955	24.3804	24.4361
## 77	28.2424	29.4176	28.1202	26.6837	26.2754	99.0000
## 78	28.3330	27.8871	27.1012	26.9542	26.1834	26.2996
## 79	29.9067	29.1769	27.9319	26.9695	26.9588	29.6223
## 80	25.2596	24.5702	23.4889	22.6959	21.9383	21.5542
## 81	27.8407	27.5703	26.9581	26.2224	25.9186	25.8953
## 82	27.0065	26.5739	25.7851	25.1745	25.0848	24.9713
## 83	27.7584	27.9356	26.8045	26.2979	26.6657	25.8988
## 84	26.8458	26.3254	26.2689	25.7780	25.2112	24.7541
## 85	25.5016	25.3407	24.9019	24.2711	24.0173	23.9559
## 86	26.3515	26.1852	25.7143	25.6401	25.4113	25.2629
## 87	26.3581	26.0194	25.3646	24.6924	24.4506	24.3314
## 88	26.7498	26.1775	25.0547	24.5991	24.2826	24.1428
## 89	27.1613	28.3186	28.2976	26.8731	27.6306	26.7550
## 90	27.3878	28.2304	27.2710	26.9600	26.2623	27.4151
## 91	99.0000	28.9702	27.8574	26.1651	25.0758	24.5420
## 92	26.7702	25.9774	25.1721	24.1824	23.8712	23.6064
## 93	29.5105	28.6623	27.3934	25.4760	24.5108	24.0294
## 94	28.7677	28.1083	27.3822	26.7579	26.8036	26.4309
## 95	27.3849	26.7923	25.5132	25.1705	24.9947	24.4100
## 96	24.4493	23.9789	23.4495	22.7737	22.5904	22.4742
## 97	27.0086	26.1973	25.8617	25.6216	25.4212	25.4239
## 98	99.0000	27.6859	27.5021	26.6976	27.2323	26.0221
## 99	27.0037	26.8867	26.4836	25.9131	25.1681	24.7888
## 100	27.7149	27.4305	26.0949	25.2065	24.9376	24.4327
## 101	28.3965	28.5976	27.5629	26.9222	26.6820	26.8252
## 102	30.1858	28.1109	26.4871	24.7450	24.0867	22.9911
## 103	29.1098	30.2545	28.4310	26.9262	26.7440	31.5682
## 104	25.4800	25.0120	23.6072	22.5956	21.7975	21.4625
## 105	26.0449	25.5407	24.9566	24.8194	24.6210	24.8078
## 106	28.9737	26.7347	26.3124	25.8207	25.0124	24.8154
## 107	27.8048	27.7558	26.6794	25.9711	25.0937	24.6453
## 108	99.0000	31.6617	27.5083	25.8405	24.8862	24.0097
## 109	26.9322	26.3646	25.6975	24.6761	24.0238	23.2902
## 110	24.3764	22.7359	21.4422	20.9512	20.6848	20.4670
## 111	27.8039	27.5786	26.7804	26.0302	25.9373	25.6887
## 112	99.0000	27.4599	25.9715	25.0598	24.0858	23.3608
## 113	27.4302	27.4222	26.4625	25.9584	25.8212	25.7474
## 114	99.0000	28.8544	27.0935	26.1411	26.0946	28.1544
## 115	25.3025	24.3001	23.6234	23.2673	23.1538	22.9817
## 116	26.3901	26.4997	26.7621	26.8865	26.4839	26.6713
## 117	27.9830	27.4822	26.9654	26.0706	25.3717	25.3478
## 118	28.0418	27.9294	27.1045	26.4524	26.0929	25.2800
## 119	26.2505	25.4146	24.5361	23.6009	23.0824	22.9120
## 120	28.4583	26.9024	26.2961	25.8636	25.5368	25.5522
## 121	27.4011	27.5427	26.6247	26.0721	26.3974	27.0641
## 122	26.9429	26.0693	23.6378	22.5234	21.5045	20.9203
## 123	31.0711	29.3700	28.3446	26.9023	27.0790	26.9673
## 124	28.1587	27.4872	26.6918	25.8740	25.5831	25.0922
## 125	27.9147	26.7582	25.5385	24.3470	23.5299	22.7669
## 126	99.0000	27.9855	27.4880	26.6029	26.1607	25.4544
## 127	27.1589	27.1902	26.8306	26.2868	26.5366	25.6409
## 128	28.1642	27.9889	26.3037	25.9457	25.7511	25.1839
## 129	28.1295	27.1672	26.7560	26.6055	26.2648	25.8942
## 130	27.7412	27.2165	26.7459	26.0424	25.5664	25.1168
## 131	28.1492	27.0302	26.3259	26.0324	25.7576	25.4970
## 132	26.7010	26.3689	25.5601	24.7597	24.3197	24.1195
## 133	26.8484	27.2735	26.7470	26.2125	26.1539	25.5416
## 134	28.7864	27.6317	26.7267	26.2818	26.2873	25.8843
## 135	27.8443	26.7471	26.3115	26.3039	26.1726	25.7483
## 136	23.9544	22.9458	22.1460	21.9357	21.6788	21.7137
## 137	25.6743	24.4970	23.1968	22.9228	22.7628	22.6715
## 138	25.4266	24.6804	24.0356	23.3232	23.1673	23.0210
## 139	99.0000	27.3952	26.8879	26.7157	26.1964	26.0210
## 140	25.7028	25.2798	24.6677	23.8431	23.5382	23.4780
## 141	30.2659	28.8755	27.8752	26.6219	26.2718	28.0630
## 142	26.2713	26.0686	25.1629	24.4653	23.7420	23.4440
## 143	27.7527	27.3598	26.8755	26.6431	26.3616	26.0163
## 144	23.7350	22.9648	22.6422	22.4577	22.3946	22.2956
## 145	26.5354	26.8726	26.4999	26.0153	25.6725	25.2609
## 146	27.5456	26.3197	25.4028	25.1169	24.8863	24.6371
## 147	27.2383	27.4337	26.2674	25.5955	25.4162	25.2546
## 148	24.9897	24.8440	24.1627	23.5813	22.8814	22.6009
## 149	27.3800	27.9628	27.2757	26.9270	27.0203	25.6807
## 150	27.9541	26.9499	26.9739	26.6286	26.1495	25.8430
## 151	26.1539	25.8538	25.0840	24.4084	24.1900	23.9655

##	152	99.0000	28.0005	27.4545	26.8872	26.1570	26.2312
##	153	28.9731	27.8204	26.6721	26.3613	26.1606	26.3381
##	154	29.9981	28.4193	27.0202	26.0424	25.9001	25.1539
##	155	27.8540	26.0984	24.6875	24.1125	23.8925	23.8547
##	156	24.7922	23.8921	22.6739	21.6964	21.3536	21.0321
##	157	28.4482	27.9130	27.2787	26.5101	25.9948	25.2235
##	158	99.0000	28.0421	27.5552	26.9130	26.5365	26.9885
##	159	28.0492	27.7464	27.0177	26.3825	26.1431	26.4445
##	160	31.2265	27.7647	26.5378	25.8716	24.7222	24.1823
##	161	27.8728	27.9822	27.2647	26.7756	26.0814	25.7971
##	162	26.3357	26.0166	25.2859	24.6200	24.3970	24.4394
##	163	27.9109	28.2089	27.3425	26.9665	27.7448	25.9759
##	164	99.0000	27.1915	27.2267	26.1779	25.9988	25.8512
##	165	26.8943	27.8515	27.0970	26.1868	25.7756	25.9312
##	166	27.3914	25.8844	25.2107	24.3047	23.6853	22.8502
##	167	28.3369	27.2243	25.4916	24.5312	23.5198	23.0325
##	168	28.4870	27.8588	27.1438	26.9717	26.3082	25.6752
##	169	27.7209	27.7136	27.0732	26.4383	26.6934	27.4961
##	170	30.3440	27.8508	27.3069	26.7490	26.0978	26.5945
##	171	25.5889	25.4814	25.1112	24.5348	24.0782	23.8003
##	172	24.6205	23.8978	22.9914	22.7124	22.5107	22.4058
##	173	25.2231	24.6784	23.7423	23.0379	22.7700	22.5108
##	174	26.2904	25.6074	24.5648	23.6138	23.3474	23.1130
##	175	26.9743	25.6516	24.8453	24.6112	24.4283	24.3514
##	176	26.6690	27.1101	26.6231	26.2105	26.5872	25.5480
##	177	27.2795	27.4140	27.0228	26.7156	26.5943	26.3928
##	178	26.8811	26.4115	25.9688	25.7964	25.7123	25.4065
##	179	25.1236	24.7740	24.6409	24.0948	23.6550	22.9186
##	180	25.8806	25.5724	25.0070	24.3168	23.9644	23.7055
##	181	27.1791	28.0240	27.3065	26.9033	26.8668	26.8150
##	182	27.4578	27.0182	25.2897	24.1771	23.3858	23.0770
##	183	28.5485	28.2122	27.3295	26.9860	26.4146	25.8162
##	184	29.2743	27.3675	27.1547	26.5708	26.4545	26.1016
##	185	25.9150	24.8299	24.2145	23.9237	23.8521	23.6882
##	186	26.1898	26.1435	26.0303	26.0957	26.0745	26.4451
##	187	99.0000	29.2627	27.9059	26.8753	26.6095	26.5269
##	188	99.0000	27.2487	27.1684	26.6990	25.9979	25.7881
##	189	26.4759	25.7340	24.9832	24.1781	23.8794	23.8258
##	190	29.6979	29.1416	27.4330	26.8687	26.3781	25.1857
##	191	27.4047	26.7019	25.9933	25.4014	25.2697	24.9195
##	192	27.3043	25.4635	24.5850	24.3198	23.9955	24.1169
##	193	27.9925	28.5425	27.4970	26.5000	25.6171	25.1065
##	194	28.2699	27.9365	27.3141	26.5184	26.0188	25.8093
##	195	26.8558	26.5724	26.6476	26.9707	26.8069	99.0000
##	196	27.3854	27.0924	26.6447	25.6993	25.2596	25.1425
##	197	99.0000	27.9055	26.8069	26.3458	27.0690	99.0000
##	198	26.8994	27.3040	26.6729	26.3870	26.3461	25.8577
##	199	25.1525	24.4345	23.7243	23.5500	23.3449	23.3436
##	200	26.5090	25.0922	24.1846	23.8581	23.6128	23.4565
##	201	99.0000	27.6919	26.7320	25.9597	24.9550	24.6838
##	202	99.0000	26.3633	25.7265	25.4207	25.3231	25.0933
##	203	28.9295	29.4774	27.9687	26.4322	25.5572	24.6287
##	204	26.5055	26.6887	26.7953	26.5512	26.4997	26.3223
##	205	28.5546	27.8309	26.3221	25.3246	24.4609	23.8040
##	206	28.5829	29.6314	27.0514	26.4505	25.9460	25.5217
##	207	99.0000	27.6353	27.8968	26.8258	26.5430	25.7629
##	208	29.9024	29.6355	28.2893	26.8018	26.0478	25.2392
##	209	29.2746	27.6786	26.7385	25.9063	25.5569	25.3625
##	210	29.7040	27.5801	27.0003	26.4159	26.0531	25.8030
##	211	27.3490	26.7342	26.3188	26.1716	25.9898	25.7575
##	212	29.3489	27.1732	26.6207	25.6039	24.9995	24.0020
##	213	26.3758	26.0851	24.9389	24.3107	24.1835	24.0248
##	214	99.0000	29.9483	27.8641	26.9712	27.0348	27.7180
##	215	99.0000	28.1164	27.8167	26.5014	26.1962	25.3223
##	216	27.6691	27.6645	27.9776	26.8253	26.7963	26.6239
##	217	27.4113	27.2869	26.9432	26.2856	26.5674	26.3558
##	218	27.5885	27.6860	27.3862	26.8267	26.6587	99.0000
##	219	25.3609	24.9915	24.7860	24.3007	23.7713	23.0884
##	220	26.5259	26.4330	25.6487	25.1605	25.1626	24.9870
##	221	27.4816	27.3624	26.7097	26.4239	26.2845	26.6014
##	222	24.6115	24.3220	23.7486	23.3858	23.2784	23.1158
##	223	29.2160	27.3207	26.0026	25.4335	25.1291	25.2439
##	224	26.1998	26.7701	26.2982	25.4596	25.1919	24.8276
##	225	25.0611	24.2325	23.0461	22.6794	22.5632	22.0676
##	226	26.5231	26.6545	26.7881	26.5354	26.4665	26.7244
##	227	27.4804	26.9306	26.5425	26.3554	26.0311	26.0034
##	228	27.5706	27.1727	25.2802	24.1328	23.2094	22.7795
##	229	26.7203	26.2785	25.5208	24.8969	24.8000	24.5367
##	230	27.3394	27.1136	26.5688	26.6547	25.9026	25.7241

##	231	27.1835	27.1312	26.4483	25.9404	25.2465	24.7676
##	232	99.0000	27.4486	25.8067	24.6466	23.8021	23.4049
##	233	29.2901	27.4031	26.4799	25.3716	24.1894	23.4281
##	234	26.7516	26.8355	26.4599	25.9113	25.5734	25.5324
##	235	30.0203	28.5565	26.5653	25.9269	25.4033	25.3213
##	236	99.0000	27.7037	27.1968	26.6516	26.0970	25.8503
##	237	31.8338	28.3780	27.4987	26.6002	26.2079	26.3430
##	238	99.0000	27.6039	27.0312	26.2584	26.0401	25.7453
##	239	24.1920	23.2495	22.8330	22.5775	22.5543	22.4797
##	240	25.4163	24.6864	23.8872	23.7146	23.4775	23.4722
##	241	25.9189	24.7587	23.5415	22.6452	22.3150	22.0131
##	242	24.6137	23.9098	22.9748	22.7258	22.5224	22.4076
##	243	28.8215	27.9027	28.0318	26.9091	27.3873	26.5991
##	244	27.2885	27.1313	27.4207	26.8427	28.0921	99.0000
##	245	28.2767	27.0880	25.4964	24.6125	24.2038	23.7262
##	246	29.4886	26.0339	24.4363	23.3704	22.9474	22.6162
##	247	27.7852	27.3995	26.9649	26.0663	25.7275	25.3595
##	248	25.1686	24.4366	23.7160	22.8933	22.5949	22.5029
##	249	27.7207	27.6168	27.2030	26.9507	27.6593	26.3545
##	250	25.7857	25.8311	25.7036	25.4962	25.2241	25.0584
##	251	24.5733	23.6259	23.0989	22.8068	22.8217	22.7626
##	252	27.1773	27.2377	26.2175	25.4284	25.1440	24.8004
##	253	30.4945	28.7568	27.7862	26.7975	26.5748	31.1654
##	254	26.0950	25.7198	24.8857	24.6412	24.4460	24.4576
##	255	26.9306	27.8026	27.3713	26.7824	26.4045	26.1327
##	256	26.9276	27.2714	27.3821	26.8622	26.4800	99.0000
##	257	25.8317	25.9284	25.8888	25.9903	25.8364	26.1279
##	258	24.7065	23.8727	23.3566	23.0875	23.0608	22.9915
##	259	28.9057	28.4634	27.4390	26.9665	27.0937	28.3587
##	260	28.2352	28.7892	27.2325	26.7313	26.4119	25.7329
##	261	30.0616	28.6757	27.5908	26.6463	25.9732	25.6289
##	262	99.0000	27.2852	26.7060	26.3534	25.7981	25.6726
##	263	27.0827	27.1259	26.6606	25.9520	25.2261	25.0813
##	264	99.0000	28.0583	27.2086	26.4782	26.1971	26.0446
##	265	27.5345	27.8980	27.1990	26.7940	26.7085	26.2121
##	266	23.6374	23.6058	23.4835	23.5266	23.3802	23.5975
##	267	28.2907	28.1309	28.1115	26.5720	26.6339	24.7430
##	268	29.0198	28.5486	27.6762	26.7724	26.8705	26.3936
##	269	28.7076	27.8768	27.0204	25.9323	24.9549	24.2832
##	270	27.1215	26.8389	26.0548	25.8286	25.4567	25.7342
##	271	22.3166	21.2894	20.9855	20.7307	20.7679	20.6636
##	272	25.7614	24.9523	23.9009	23.2561	23.0492	22.8666
##	273	27.2999	26.9944	26.4685	26.3690	26.1835	25.8627
##	274	27.9110	28.1863	27.1829	26.6275	25.8866	25.3501
##	275	26.4190	26.0822	25.4824	24.6624	24.4234	23.8931
##	276	27.2775	28.3120	27.2403	26.8655	27.5668	27.0860
##	277	25.2727	25.0660	24.4699	23.6175	23.0784	22.8796
##	278	29.1233	28.3727	27.2154	26.5866	26.1899	25.7558
##	279	24.8072	24.0427	23.5370	23.2752	23.2248	23.1337
##	280	26.8580	27.3662	27.1260	26.9618	26.3097	99.0000
##	281	26.8832	26.5329	25.9390	25.2791	24.6338	24.3605
##	282	28.1037	27.1396	26.6674	26.6544	26.0169	26.2482
##	283	27.7770	27.2678	25.5836	24.1244	23.2885	22.3944
##	284	27.5462	27.1953	26.6801	26.5046	26.3454	26.7845
##	285	27.6319	27.6448	27.1339	26.4573	26.1365	24.9105
##	286	27.2613	27.5616	26.4575	25.5710	25.2111	25.2449
##	287	26.7704	26.8603	25.9755	25.7477	25.5171	26.1309
##	288	23.9710	23.5709	22.8093	22.0265	21.7688	21.5762
##	289	25.1796	25.2382	24.9767	24.5991	24.4420	24.4974
##	290	26.8010	25.7050	24.8199	24.7048	24.4768	24.5575
##	291	29.4283	28.5292	27.9942	26.9834	26.7393	27.4991
##	292	24.2883	23.7950	22.9175	22.6544	22.4912	22.4001
##	293	26.3545	26.3690	25.8236	25.5020	25.5249	25.4959
##	294	24.8075	24.0819	23.4243	23.2637	23.0450	23.0344
##	295	26.4293	25.8556	25.3158	25.1653	25.3088	24.8675
##	296	27.5794	27.4447	26.8744	26.4159	25.7007	25.1779
##	297	26.1811	26.1644	26.0297	25.5455	25.2171	24.6337
##	298	27.4860	27.4976	27.0352	26.1723	26.2596	26.1796
##	299	27.2355	28.0731	26.5439	26.2420	25.9587	26.6581
##	300	99.0000	27.7507	27.4130	26.9389	26.3294	25.7272
##	301	27.6446	27.1509	26.5123	25.9446	25.9659	25.7566
##	302	27.8040	27.8649	27.3994	26.3391	26.3632	26.1668
##	303	27.8760	28.4269	27.5830	26.9057	26.1273	26.0858
##	304	27.1968	27.0074	26.3118	26.2657	26.0292	26.4381
##	305	21.6873	20.4499	19.5755	19.1232	18.8656	18.6434
##	306	26.9665	26.1637	25.4043	24.8479	24.2100	23.8191
##	307	26.8048	25.8854	25.3757	24.6218	24.1977	23.4293
##	308	29.2085	27.4839	27.2256	26.3085	25.9378	27.9218
##	309	28.1552	25.9818	24.1900	22.9332	22.2884	21.9262

##	310	27.3601	26.3564	25.5474	24.9197	24.7969	24.8793
##	311	25.2395	24.6228	23.7385	22.9710	22.3451	22.1204
##	312	28.8261	28.6991	27.2724	26.9349	25.9719	26.4202
##	313	27.4381	27.0683	26.6647	26.3621	25.9861	29.5161
##	314	29.1394	27.3283	26.3147	26.1152	25.3485	24.8797
##	315	26.1619	25.0246	23.9160	23.1041	22.8819	22.6594
##	316	27.0795	26.5640	25.6492	24.8543	24.2193	23.9436
##	317	26.4757	26.0536	24.8386	23.8353	23.4547	23.1078
##	318	99.0000	27.5086	26.5260	26.3163	26.0648	26.1637
##	319	28.2775	28.0559	27.6431	26.9405	27.3009	27.1922
##	320	26.3620	25.4121	24.7912	24.2133	24.0862	23.9184
##	321	25.5444	24.8224	23.0869	21.9483	21.1685	20.8509
##	322	27.9280	27.5027	26.7065	25.8048	25.3964	24.9324
##	323	25.6719	23.2983	21.5768	20.6211	20.1689	19.8174
##	324	99.0000	31.9366	28.5181	26.9738	26.4255	25.3278
##	325	26.0619	25.3231	24.6838	23.7068	23.1723	22.3419
##	326	28.1511	27.7563	26.8076	26.2364	25.8604	25.5708
##	327	26.4886	25.8615	25.6854	25.3709	25.1218	24.4128
##	328	27.0981	25.5626	24.1937	23.5414	23.2173	22.8866
##	329	28.2892	27.0647	25.9409	25.5703	25.3897	24.8883
##	330	30.5953	27.1761	26.2294	26.0583	25.6133	25.6942
##	331	99.0000	26.9427	25.5862	24.8519	24.5059	24.2749
##	332	27.5246	26.8663	25.9165	25.4535	25.1709	25.6851
##	333	27.1674	26.8636	25.8991	25.5645	25.4573	25.4461
##	334	29.4042	26.9885	26.2571	25.9231	25.8393	25.3588
##	335	28.7547	27.8734	27.2197	26.1786	25.5188	25.2576
##	336	29.6318	28.4991	28.1289	26.9697	25.4754	24.9997
##	337	25.0971	24.9977	24.9805	25.0839	24.9136	25.2994
##	338	27.2369	27.9851	27.4042	26.6975	26.5859	26.4729
##	339	23.3320	22.4142	21.6669	21.3121	21.1440	21.0031
##	340	27.7036	26.6694	25.8184	25.2886	25.1650	25.2189
##	341	27.4932	25.2233	23.7021	23.1245	22.8128	22.5786
##	342	99.0000	28.3338	27.4182	26.5812	27.7019	25.8192
##	343	26.3960	26.2331	25.9770	25.7317	25.1671	24.8280
##	344	24.6924	24.5916	24.5401	24.5696	24.5907	24.8867
##	345	29.0881	27.2543	25.1092	24.0162	23.1388	22.7461
##	346	22.8386	21.3461	20.3679	19.9478	19.7254	19.5353
##	347	26.4437	26.2098	25.2938	24.6654	24.3597	24.2184
##	348	27.4873	27.3498	25.3703	23.9112	23.1417	22.1805
##	349	99.0000	27.7702	27.3140	26.9685	26.3725	27.2582
##	350	25.2004	24.3724	23.4452	23.1264	22.9235	22.8189
##	351	25.9258	26.0576	25.8099	25.9452	26.0454	25.4083
##	352	23.2300	22.5759	22.0202	21.7439	21.6785	21.6027
##	353	28.9676	27.3083	26.9103	26.7290	26.0699	25.7044
##	354	28.5888	28.1393	25.9376	24.8915	23.8993	23.1113
##	355	26.7504	28.0525	27.0944	26.9766	27.2288	26.5844
##	356	24.9299	24.1194	23.2028	22.6157	22.4073	22.2263
##	357	25.0551	23.9324	22.5934	21.8402	21.5836	21.3413
##	358	26.8157	26.1021	25.2980	24.8096	24.3187	23.7652
##	359	27.9254	28.1287	26.9084	26.1392	25.5210	25.3747
##	360	26.4327	25.8844	24.9883	24.6789	24.6144	24.3048
##	361	26.5292	26.5555	25.9100	25.2183	25.0642	24.8849
##	362	27.9650	28.0733	27.3581	26.4545	25.9370	26.9657
##	363	27.6520	27.1784	27.0018	26.9962	27.3063	99.0000
##	364	29.1260	27.1312	26.4099	25.7791	25.7062	25.4330
##	365	28.1365	26.4782	25.9140	25.4864	25.2284	25.2720
##	366	29.7193	28.1666	26.9776	26.0931	25.3884	24.5807
##	367	27.3177	27.2095	26.3470	25.9069	25.2528	24.8578
##	368	26.8396	26.8304	26.1507	25.9990	25.5460	25.5913
##	369	28.6787	27.1088	26.8697	26.3146	26.0983	25.4232
##	370	29.9623	27.5598	26.3882	25.3785	24.7099	24.9046
##	371	28.4327	27.5443	27.1582	26.9393	26.8831	26.7725
##	372	24.5708	24.2739	24.1071	23.6633	23.3095	22.5616
##	373	27.0537	27.6282	26.7704	26.3727	26.4145	26.8237
##	374	27.1552	26.9384	27.2080	26.9332	26.3650	26.5818
##	375	26.7584	26.5855	25.5746	25.2324	25.0854	24.8602
##	376	26.4698	27.3062	27.2018	26.9748	25.9974	25.5285
##	377	28.1960	28.0293	27.3904	26.7053	26.2285	25.6643
##	378	27.8720	28.2135	27.3194	26.6130	26.9643	27.4424
##	379	27.6210	26.5751	25.7979	25.5315	25.4021	24.9908
##	380	27.7019	30.6803	27.0571	26.7395	26.2717	26.0022
##	381	26.9279	27.4404	27.0264	26.7069	26.8628	26.2111
##	382	25.7661	25.3532	24.5376	24.3308	24.2392	24.1038
##	383	27.3069	26.9516	26.6377	26.3065	26.3433	26.1522
##	384	28.1813	27.0512	25.8545	24.4429	23.6203	22.7383
##	385	30.4115	29.1409	28.8788	26.5663	25.6585	24.9808
##	386	25.9681	26.2468	26.3212	26.5362	26.3258	26.3985
##	387	26.7369	26.0739	25.3442	24.7081	24.5114	24.2101
##	388	27.9913	26.5464	25.6682	25.5565	25.2542	25.8206

##	389	27.7527	27.7199	26.6912	26.6980	26.9500	26.0309
##	390	25.9718	26.0551	25.6356	25.1516	24.7178	24.5267
##	391	28.5138	27.7720	26.8745	26.1886	25.5848	26.0083
##	392	29.1739	27.1409	26.2971	26.0327	25.9454	25.5055
##	393	26.4966	26.8210	26.7531	26.6547	26.4410	99.0000
##	394	27.2267	27.1441	26.8448	26.9160	27.1844	27.4267
##	395	26.0008	25.8306	25.3311	25.0558	24.7118	24.1275
##	396	27.8822	27.3867	26.7021	25.8557	25.7375	25.2689
##	397	25.1018	23.8720	22.6351	21.7404	21.4122	21.1443
##	398	24.6706	24.2920	23.9063	23.3079	22.7215	22.0351
##	399	26.3241	25.6706	25.4153	24.9061	24.6092	23.8275
##	400	99.0000	26.8532	25.1277	23.9400	23.1553	22.8988
##	401	25.8011	23.8701	22.2826	21.3428	20.9600	20.6611
##	402	22.5812	21.7168	20.6161	20.1850	19.8880	19.7253
##	403	28.0217	27.3121	26.9752	26.2261	25.9022	25.3277
##	404	27.2196	27.6401	26.6676	26.4311	26.9254	25.6194
##	405	28.7960	28.0796	27.3208	26.6399	25.9041	25.7477
##	406	27.1865	26.6528	26.6435	26.3348	26.1293	26.5912
##	407	28.5259	26.8555	26.1152	25.5696	24.6987	24.2525
##	408	26.8214	25.5879	24.8212	24.5888	24.4119	24.4516
##	409	99.0000	28.2404	27.7774	26.9972	26.7679	27.3974
##	410	27.1077	26.6432	26.4086	25.8784	25.5995	25.1518
##	411	99.0000	28.1033	27.5268	26.9988	26.7559	99.0000
##	412	24.8688	24.4109	23.6191	22.9803	22.4857	22.2897
##	413	25.6291	25.2631	24.5914	24.2100	23.7112	23.4264
##	414	27.0824	27.8641	27.0244	26.2309	25.8891	25.5651
##	415	26.9633	26.5040	24.9983	24.3745	24.0376	23.7127
##	416	27.4384	27.0193	26.4778	26.0300	25.6776	27.2406
##	417	25.4327	25.3389	25.1078	24.8268	24.0545	23.9357
##	418	27.4180	26.7883	25.7337	25.3566	25.2013	25.1973
##	419	29.6378	27.5679	26.7593	25.5798	24.9041	24.1532
##	420	27.0858	27.1514	26.5105	25.9775	25.8720	25.7691
##	421	26.6070	26.6807	26.3724	25.7372	25.0698	25.1631
##	422	28.3209	27.8608	28.0972	26.8695	26.4928	26.4666
##	423	26.5913	26.3888	26.1456	25.8008	25.4410	26.1185
##	424	30.4623	28.4717	27.3977	26.8484	26.2192	26.7747
##	425	24.2495	24.1038	23.7381	23.0610	22.7255	22.6113
##	426	27.2677	27.1237	26.5940	26.0902	25.4854	24.9502
##	427	26.5037	26.3746	26.1710	25.8088	25.6609	25.8071
##	428	24.4721	24.1113	23.4038	22.6820	22.4672	22.3041
##	429	26.4263	25.9821	25.3470	24.5989	23.9383	23.6625
##	430	26.0529	25.9678	26.0370	25.9573	25.6888	25.9325
##	431	24.9561	24.5894	23.8193	23.2226	22.4808	21.9802
##	432	25.1409	24.7017	23.8425	23.4831	23.3074	22.9382
##	433	25.3603	24.9437	24.0099	23.4284	23.2757	23.1293
##	434	27.9759	27.4812	27.2326	26.9173	26.0529	26.8451
##	435	28.0215	27.5136	27.3587	26.9735	26.9605	27.1345
##	436	36.8527	28.1223	27.4664	26.9222	27.2035	26.1811
##	437	99.0000	29.0893	27.8860	26.5891	25.7091	25.0496
##	438	26.5886	26.4862	26.1316	25.6222	25.1638	24.5615
##	439	29.2602	28.4396	27.7512	26.9853	26.9415	26.7895
##	440	28.5650	27.4239	26.8621	26.0129	25.4275	24.6237
##	441	28.6534	27.4907	26.7689	26.4240	25.5601	25.4161
##	442	26.9923	27.0030	27.0482	26.8303	26.7900	26.2877
##	443	25.3396	25.1020	24.8580	24.4604	23.9999	23.3708
##	444	28.4757	26.5628	25.7166	25.6753	25.2348	25.6116
##	445	24.1339	23.5940	22.7074	21.8922	21.6332	21.4041
##	446	22.6300	22.0843	21.0751	20.6234	20.3237	20.1244
##	447	29.2234	27.4039	25.8067	24.6990	23.9300	23.5476
##	448	30.4434	26.9048	26.2395	25.6262	25.6254	25.3120
##	449	28.7953	28.8206	27.2457	26.6838	26.1226	25.2870
##	450	24.6118	23.9994	23.2444	23.0573	22.8076	22.8496
##	451	29.7204	30.5478	28.3367	26.7854	26.2727	25.8919
##	452	99.0000	28.6602	27.9144	26.8388	27.7917	26.5771
##	453	27.1568	26.7610	26.2951	25.6248	25.1256	24.5691
##	454	26.7897	26.4556	25.8084	25.0601	24.8813	24.9142
##	455	27.8769	27.0131	26.2492	25.5382	25.0346	24.9083
##	456	27.7941	27.3949	26.9648	26.5272	25.9680	25.4661
##	457	26.9730	27.0152	26.6842	25.8275	25.4063	25.0061
##	458	27.8043	27.3665	26.9136	26.2790	25.7776	25.7091
##	459	28.3432	27.4456	26.8201	26.0890	26.1401	25.4619
##	460	25.9190	25.8925	25.3778	25.2675	25.1101	25.0951
##	461	29.9161	32.4665	27.9783	26.6219	25.7315	25.4538
##	462	27.7642	27.3223	26.9128	26.7561	26.0082	26.0299
##	463	27.7357	26.3638	25.5966	24.9377	24.8730	24.4524
##	464	27.0055	27.3891	26.5685	25.7963	25.4506	25.5542
##	465	28.6864	28.4416	27.3685	26.6392	26.4050	26.3856
##	466	27.0240	27.0869	26.3579	25.5985	25.5028	25.1125
##	467	27.4184	26.5722	26.1933	25.7248	25.2979	25.0994

##	468	26.9122	26.2573	25.7954	25.7503	25.6103	26.4167
##	469	25.8619	25.6739	25.1418	25.0036	24.8946	24.8689
##	470	25.1489	24.6614	24.1470	23.5442	23.1606	22.4196
##	471	27.7158	28.1063	27.3071	26.7766	26.2363	25.7883
##	472	28.1183	27.8389	27.1839	26.3593	26.1057	25.8542
##	473	23.6918	22.3866	20.9285	20.1120	19.7955	19.5006
##	474	29.1071	27.4319	26.4241	25.4854	25.3063	24.6604
##	475	25.0708	24.4945	24.0282	23.8188	23.8238	23.6736
##	476	25.8734	25.1373	24.0903	23.0846	22.6466	22.4242
##	477	25.4724	24.8429	23.9024	23.6406	23.4441	23.3422
##	478	25.0214	24.3539	23.5432	23.2352	22.9978	22.9497
##	479	26.6916	26.1220	24.3054	23.2714	22.3116	21.7051
##	480	27.8292	26.4764	26.0206	25.4698	25.3302	25.2302
##	481	26.9031	26.7317	26.0738	25.4176	24.8468	24.5785
##	482	28.0485	28.1161	26.7137	26.0573	25.6166	25.2817
##	483	27.3858	26.8991	26.5494	26.2847	26.2551	25.1931
##	484	27.3697	27.9831	27.1880	26.8935	26.6584	99.0000
##	485	25.7238	24.9959	24.3375	23.6463	23.1835	22.4983
##	486	24.8792	24.7031	24.1169	23.4312	22.6603	22.1395
##	487	24.0746	23.8517	23.3592	22.6523	22.3796	22.2524
##	488	30.3184	28.9308	27.0892	26.0542	25.1234	24.4976
##	489	27.6724	27.8668	26.5792	26.3482	25.9893	26.1264
##	490	26.9647	26.9162	26.6271	26.2248	25.6015	25.2289
##	491	26.7790	27.3469	27.1749	26.5051	26.1767	25.3288
##	492	27.5221	27.1847	26.7483	26.1970	25.5555	25.4206
##	493	27.1201	26.9017	26.7579	26.1021	25.7410	25.1021
##	494	99.0000	29.0576	28.1688	26.8469	26.5895	25.5750
##	495	25.6586	25.0334	24.1676	23.5733	23.4234	23.2502
##	496	26.9739	26.4675	25.8159	24.9026	24.5389	24.4032
##	497	25.1000	24.4403	23.4762	22.9054	22.6844	22.4158
##	498	26.0476	25.4110	24.4310	24.2124	23.9887	24.0026
##	499	27.3194	27.6462	27.4336	26.7274	26.7220	28.5262
##	500	29.5210	99.0000	27.6145	26.8541	26.2860	26.8439
##	501	23.1165	22.8691	22.3760	22.3484	22.1504	22.2738
##	502	26.7333	26.4687	25.9343	25.2369	24.8354	24.1756
##	503	26.2093	25.6822	25.0678	24.5428	24.4143	24.3305
##	504	27.0399	26.3052	26.2008	25.7301	25.9988	26.0179
##	505	27.6123	27.8677	26.8972	25.8972	25.9160	26.6250
##	506	29.8842	29.6865	26.9195	25.9302	25.1146	24.4270
##	507	24.6347	24.1052	23.2741	23.0388	22.8009	22.8012
##	508	27.6762	27.5243	27.4234	26.9345	26.4387	26.1565
##	509	25.6138	25.3977	25.3032	25.0375	24.7027	24.2910
##	510	25.5740	25.2959	24.5977	23.7623	23.4284	23.2391
##	511	99.0000	27.5433	26.7329	26.2622	26.6790	27.5520
##	512	26.7361	26.9623	26.5855	26.6204	26.1224	26.5830
##	513	28.7148	29.5105	27.2290	26.2922	26.0931	25.2527
##	514	26.3355	25.7632	24.6097	23.7609	22.8670	22.4774
##	515	28.1864	27.7824	27.2089	26.6748	27.0741	26.3367
##	516	28.7646	28.1991	27.6200	26.9656	26.7275	26.0238
##	517	28.9227	28.9022	27.5893	26.8314	26.9021	26.7571
##	518	27.0059	26.3299	24.9842	23.9079	23.1379	22.7821
##	519	27.1001	27.3545	26.7444	26.8197	26.0579	26.3186
##	520	23.6058	22.8714	21.9877	21.6584	21.3693	21.2226
##	521	27.6490	26.7442	26.8898	26.6067	26.4354	25.7125
##	522	28.0604	29.2126	27.7439	26.5592	26.3708	26.6367
##	523	28.2873	27.7504	27.6390	26.9688	27.0349	26.4308
##	524	99.0000	26.5642	26.2132	25.5084	24.9450	24.1974
##	525	27.6199	26.3002	25.9438	26.0126	25.4684	25.5076
##	526	25.8020	25.8617	25.6155	25.1860	24.7998	24.3668
##	527	26.7132	26.8980	26.7679	26.2050	25.6667	25.2602
##	528	31.1815	27.5236	27.0347	26.4087	26.3759	25.6546
##	529	28.0821	27.2160	26.8038	25.8944	25.7195	26.0702
##	530	27.0674	26.9086	26.4179	26.3024	26.2647	26.0541
##	531	27.3848	27.5687	27.1519	26.0297	25.8223	25.8201
##	532	27.6319	26.8675	26.2518	25.7940	25.1676	24.5073
##	533	27.2315	26.7870	26.2018	26.0950	25.8687	25.9616
##	534	25.7239	25.9963	25.7341	25.2148	24.7583	24.9269
##	535	28.8682	28.6631	27.0142	25.9159	25.2048	24.7385
##	536	28.2425	30.5076	27.6542	26.8447	26.4761	25.6493
##	537	27.8159	26.6229	25.7376	25.5433	25.1807	25.6213
##	538	27.4223	26.7003	25.6606	24.3950	23.6042	22.6951
##	539	26.2515	25.3375	24.4930	24.1330	23.8939	23.7426
##	540	99.0000	27.4373	26.6819	26.8474	26.2551	25.7575
##	541	26.8693	26.2582	25.1227	24.6605	24.5925	24.1767
##	542	29.6689	27.5444	26.7855	26.5447	26.5815	26.1559
##	543	99.0000	26.1293	25.1305	24.7248	24.4048	24.2408
##	544	27.0461	25.9907	24.9853	24.3265	23.5836	23.0732
##	545	25.6388	25.2209	25.2205	25.0823	25.4731	25.2266
##	546	99.0000	27.9189	27.3949	25.6821	24.9547	23.9676

##	547	26.0285	25.8239	25.4234	24.7892	24.6452	24.4958
##	548	28.7302	28.2004	27.1892	26.6220	26.5873	26.5238
##	549	27.4215	27.3367	26.5447	25.5612	25.1779	25.4205
##	550	28.0226	26.4217	24.4191	23.2229	22.3823	22.0273
##	551	26.1695	25.7124	25.4275	25.3119	25.3214	26.1417
##	552	26.9307	26.7803	25.7519	24.6302	24.2334	24.1036
##	553	28.1019	28.0327	27.0455	26.4218	25.8209	25.2894
##	554	30.8422	29.0325	27.3424	26.8363	26.9582	26.2325
##	555	26.1806	25.2720	24.1508	23.6976	23.4230	23.2300
##	556	20.2639	19.4075	18.8305	18.5348	18.4000	18.2745
##	557	24.4447	23.6163	22.4218	22.0092	21.8186	21.4201
##	558	99.0000	28.3936	26.5494	25.9686	25.5711	25.4564
##	559	28.4739	26.9513	26.6372	26.3389	25.7025	25.3830
##	560	27.6617	28.0888	26.6617	25.4990	24.5369	24.1753
##	561	29.1909	27.9193	26.4086	26.1388	25.5457	25.3637
##	562	23.0128	21.3579	19.8800	19.3776	19.0498	18.9045
##	563	25.5479	25.8267	25.2174	24.4558	24.2055	24.2442
##	564	28.4472	27.1085	26.3938	25.4386	24.9748	24.8311
##	565	22.9788	22.2445	21.2250	20.9376	20.6814	20.6079
##	566	27.6612	28.6202	25.7107	24.4703	23.5188	22.7133
##	567	28.0762	27.8640	27.7373	26.8451	28.2721	26.2001
##	568	27.0217	27.1235	26.2985	26.0331	26.0401	26.0192
##	569	28.3422	27.6058	27.4801	26.7419	26.5549	28.2737
##	570	26.8888	26.9189	27.2544	26.6831	26.5482	99.0000
##	571	25.8172	25.5616	24.6561	23.9209	23.6670	23.3983
##	572	25.7962	25.4935	25.3700	25.0707	24.7355	24.2288
##	573	26.0703	25.2355	24.6052	24.3529	24.3053	24.2128
##	574	27.0891	26.4536	26.5474	26.6934	25.8185	26.1152
##	575	99.0000	28.4109	27.1770	26.4427	25.6346	26.1790
##	576	26.6229	26.1552	25.1175	24.0637	23.5936	23.2623
##	577	27.6830	27.5915	27.1536	26.1960	25.3805	24.4897
##	578	27.1098	26.8451	26.0134	25.4687	24.9263	24.8137
##	579	99.0000	27.9385	27.3819	26.7355	26.1163	26.6924
##	580	23.3165	22.3395	21.7222	21.3974	21.2748	21.1485
##	581	27.0575	26.6007	25.7109	25.1956	24.9735	24.3877
##	582	25.3016	25.3157	24.7639	24.0785	23.4769	23.2545
##	583	28.3696	27.0106	26.9621	26.8926	27.2439	27.2430
##	584	25.6665	24.6201	23.9360	23.6201	23.5089	23.4223
##	585	99.0000	27.4025	26.9224	25.9742	25.6605	24.7633
##	586	26.4734	26.1020	24.6635	23.5215	22.6677	22.2391
##	587	28.1430	26.5729	25.3849	25.0080	24.8239	24.4767
##	588	25.1355	25.2514	25.1287	25.2592	25.2431	25.5396
##	589	26.0570	26.0643	25.4370	25.4105	24.9558	25.3071
##	590	28.9154	27.7748	26.1331	24.5945	23.8967	22.9252
##	591	28.8341	28.2610	29.0120	26.8491	29.3536	29.4473
##	592	30.0770	29.2246	28.1935	26.1588	25.4681	24.5143
##	593	99.0000	28.0042	27.2219	26.2793	25.7110	25.6499
##	594	26.8355	26.8470	26.0517	25.5071	24.9643	24.7531
##	595	27.7603	27.1476	27.0173	26.3089	25.8770	25.7524
##	596	22.4467	21.6359	20.5706	20.0357	19.8010	19.4866
##	597	24.5933	23.9372	23.2778	23.0985	22.8414	22.8609
##	598	27.3691	26.2312	25.6523	25.0648	24.8015	23.9538
##	599	27.6566	27.8425	27.5933	26.8087	26.2809	32.0570
##	600	28.2388	27.3617	26.9664	26.6674	25.9703	26.1305
##	601	23.9659	23.5582	22.7772	22.1860	22.0021	21.8036
##	602	25.6980	23.3357	21.6949	20.5325	20.1028	19.7526
##	603	24.7895	24.0067	23.4142	23.2343	23.0046	23.0352
##	604	25.9012	25.7579	25.2469	25.1725	24.9747	25.1911
##	605	23.2140	22.2042	21.2896	21.0100	20.7518	20.6995
##	606	27.1556	26.9311	25.7750	25.4462	25.3962	25.1837
##	607	26.5626	26.6419	25.7785	25.7744	25.3959	25.6107
##	608	28.9460	27.2009	26.4971	25.9624	25.3233	25.1552
##	609	29.5818	29.2373	26.7837	26.1100	25.8768	25.5572
##	610	28.0883	27.7839	26.0242	25.5055	25.2617	24.9525
##	611	26.8765	25.7741	24.7312	24.3067	24.1297	23.6958
##	612	27.2801	27.2023	26.6469	26.0903	25.8149	25.4587
##	613	27.5045	27.6131	26.2268	25.3565	24.5486	23.7443
##	614	28.3174	25.7828	24.5730	24.1637	23.8641	23.6642
##	615	24.3582	23.7813	23.0748	22.8645	22.6087	22.5929
##	616	27.7747	27.5889	26.8566	26.3438	26.5341	25.7917
##	617	27.1329	26.8958	26.1553	25.5551	25.2125	25.0532
##	618	24.9059	24.7000	24.0431	23.5919	23.4302	23.1884
##	619	28.6326	27.7432	27.3650	26.6810	26.5319	27.1445
##	620	25.8826	25.6394	24.9397	24.6905	24.4763	24.4631
##	621	27.4140	27.3241	26.7838	26.1540	25.5733	25.1285
##	622	99.0000	27.7389	27.6257	26.6188	26.8936	25.5326
##	623	25.0089	23.2159	21.5783	20.3853	19.9409	19.6037
##	624	26.5729	25.9211	25.1454	24.3587	23.9061	23.6062
##	625	26.8958	25.7837	25.0978	24.9707	24.6494	24.7591

##	626	26.7940	26.5083	26.2783	26.0564	25.8902	26.4286
##	627	26.6354	27.0321	26.5552	26.4331	26.1446	26.0224
##	628	27.5683	27.3667	26.7367	26.5808	26.2604	25.6098
##	629	28.8450	27.3708	26.3713	25.4366	25.1953	26.0430
##	630	27.2710	27.5724	26.6630	26.4198	26.1735	25.8297
##	631	26.3485	25.7506	24.9821	24.1739	23.7665	23.5599
##	632	25.8774	25.5212	25.2111	24.5947	24.1053	23.3105
##	633	28.0426	27.4919	26.4493	25.7114	25.3578	24.9979
##	634	27.1621	27.0493	26.8377	26.5805	26.1399	26.6994
##	635	26.0923	25.9598	25.8256	25.5216	25.3309	25.2875
##	636	27.0079	28.0138	27.0824	26.9590	27.0024	26.1845
##	637	25.0770	25.0070	24.9274	24.9539	25.1225	24.5462
##	638	28.2178	26.9856	25.9280	25.8168	25.6644	25.4804
##	639	30.4923	28.0408	27.6787	26.9712	25.8640	25.6226
##	640	99.0000	27.9097	26.3035	25.4628	24.9899	24.5603
##	641	28.6084	26.8151	26.1246	25.7877	25.9309	25.7472
##	642	27.0915	26.8823	26.1233	25.3155	25.1000	25.0657
##	643	26.0832	25.4133	24.2836	23.1989	22.5120	22.2239
##	644	25.8708	25.3421	24.8113	24.6024	24.4580	24.2040
##	645	23.4418	23.3832	23.2349	23.4289	23.1276	23.5903
##	646	27.5112	27.2312	26.8901	26.6998	25.9744	26.2950
##	647	26.3440	26.1971	25.6750	25.5880	24.6433	24.2450
##	648	99.0000	27.6662	27.5048	26.9562	26.4251	27.8957
##	649	27.1922	25.8440	24.3274	23.7169	23.3909	23.3133
##	650	26.4877	25.2843	24.3980	24.2160	24.0621	24.1084
##	651	27.0348	27.5402	26.7943	26.0020	25.5316	25.3647
##	652	28.6693	28.1162	27.7643	26.4768	26.5379	25.7896
##	653	26.9222	26.4698	25.8894	24.9666	24.3467	23.6223
##	654	27.2493	27.6024	26.9934	26.8539	26.3635	26.1279
##	655	27.0509	27.0331	26.9321	26.1739	25.8860	25.2565
##	656	25.9335	25.7030	24.9480	24.7782	24.5129	24.5124
##	657	27.5501	27.6871	27.0015	26.8139	26.3678	25.8594
##	658	24.9931	24.5359	23.8763	23.1259	22.8556	22.6224
##	659	28.7489	28.7292	27.7945	26.9603	26.7445	26.3388
##	660	27.4180	27.4651	26.6157	25.8952	25.9444	26.3932
##	661	26.6397	26.2915	25.5664	24.8883	24.6813	24.6323
##	662	22.7401	22.2104	22.0282	21.8814	21.9122	21.8986
##	663	99.0000	28.0817	26.4662	25.9236	25.6338	25.4230
##	664	27.3024	27.2163	26.5463	25.9016	26.2000	25.3249
##	665	28.1582	27.4714	27.0678	26.1705	26.4845	25.6541
##	666	27.3820	27.7415	27.2049	26.7675	27.3187	28.3076
##	667	99.0000	26.9310	26.3427	26.0572	25.7897	25.7088
##	668	29.8635	29.1922	27.9199	26.9022	25.8421	25.9109
##	669	27.1120	26.7614	26.3121	26.0764	25.7854	24.8768
##	670	27.8316	28.3147	27.4205	26.6772	26.3173	25.5986
##	671	99.0000	27.7969	26.7649	26.0797	25.4415	26.5222
##	672	29.7973	29.3991	27.5698	26.3791	26.9954	26.0468
##	673	28.4362	27.1428	26.2244	25.7117	25.3231	25.1149
##	674	27.3721	26.6920	26.0402	25.3071	24.6131	24.1386
##	675	24.1385	22.7327	21.3337	20.9243	20.6939	20.5681
##	676	25.8630	25.4471	24.7808	24.0665	23.4590	23.1986
##	677	26.8488	26.5854	26.0119	25.2686	24.8260	24.1527
##	678	26.2779	26.1817	25.7776	25.4182	25.5378	25.2095
##	679	28.0566	28.1656	26.8990	26.6234	26.2563	26.2184
##	680	26.8922	26.8536	26.4868	26.1823	26.0600	26.8419
##	681	26.7156	25.4224	24.7155	24.4364	24.3013	24.2063
##	682	29.1934	28.2053	26.6776	25.4455	24.7023	23.8130
##	683	28.0025	27.6442	27.2204	26.3755	26.2448	25.5939
##	684	19.9762	19.0557	18.4569	18.0945	18.0385	17.8989
##	685	24.9933	24.3763	24.0741	23.9415	23.8545	23.8197
##	686	29.7575	28.4009	27.4614	26.5193	26.7550	26.5651
##	687	26.8091	27.1051	26.3926	26.0878	25.7855	99.0000
##	688	27.3395	27.5624	26.4405	25.9388	25.1057	25.1708
##	689	26.1251	25.5543	24.6669	24.3666	24.1199	23.9340
##	690	99.0000	99.0000	27.3701	26.3858	25.7402	26.6798
##	691	28.4766	28.2511	27.6187	26.8846	26.7318	26.4062
##	692	26.6499	26.1341	25.4576	24.6754	24.4884	24.4935
##	693	26.5171	27.0042	26.3750	26.1686	25.5679	25.4298
##	694	28.3758	26.9838	26.7541	26.4631	27.2039	26.7701
##	695	27.7174	27.8671	26.8295	26.5440	26.3099	25.4986
##	696	27.7751	27.1470	26.9989	26.6076	26.6416	26.0205
##	697	23.5153	23.2699	22.6597	21.8594	21.4056	21.2361
##	698	28.4761	28.0962	27.2142	26.5877	25.8510	25.5064
##	699	27.1495	26.5000	25.9463	26.1650	25.8643	25.9543
##	700	28.7399	27.9479	27.0984	25.7151	24.8497	24.0517
##	701	27.8107	26.7526	25.9857	25.3928	24.8109	24.0491
##	702	26.6129	26.4366	26.5681	26.8074	26.7949	26.5036
##	703	29.3587	26.4010	26.1707	26.1996	25.5491	26.9453
##	704	27.3074	26.6258	25.9973	25.4779	24.7861	24.3359

##	705	26.5395	26.7814	26.9901	25.9538	25.5925	24.8298
##	706	27.0094	26.9176	25.9512	25.2421	25.4112	25.0116
##	707	26.6288	26.4024	26.3490	26.2776	26.3300	26.1695
##	708	25.9028	25.4124	24.8235	24.7330	24.5973	24.4821
##	709	28.4119	27.9291	27.4877	26.4137	26.0595	25.7010
##	710	25.2019	25.2242	25.1346	24.7450	24.4134	24.2186
##	711	26.9482	26.5323	25.8731	25.2150	24.8205	24.8485
##	712	27.2643	26.7579	26.5240	26.2477	26.2140	26.3592
##	713	27.5321	27.7479	26.9908	26.9268	26.5838	25.9915
##	714	27.7173	27.7929	26.5073	26.2083	26.4241	25.8621
##	715	28.8467	26.8203	25.2470	24.7442	24.3852	24.1830
##	716	26.8350	25.8237	24.5850	24.3922	24.0665	24.0854
##	717	25.1631	24.6294	24.0094	23.8564	23.6622	23.7008
##	718	28.1518	29.1289	27.8095	26.9207	24.9791	24.0251
##	719	26.7530	26.4950	26.4352	26.2391	25.9712	25.5300
##	720	24.4279	23.7453	23.2688	23.0013	22.9587	22.8954
##	721	26.8035	26.7433	26.6533	26.3361	25.7171	25.8009
##	722	28.7811	27.5019	26.6088	25.9921	25.5102	24.7198
##	723	29.3899	28.6912	27.7836	26.9528	26.2946	25.8551
##	724	25.8465	24.8110	24.0954	23.9011	23.7465	23.8182
##	725	28.7464	26.7935	25.7819	23.8680	23.1131	22.0911
##	726	27.6194	26.8368	26.4548	25.8131	25.3908	25.0678
##	727	26.9892	27.8964	27.4530	26.6692	26.4597	26.1218
##	728	28.1638	27.1619	26.3723	26.2182	25.6826	25.9989
##	729	26.9896	27.0399	26.0198	25.2138	24.6417	24.4897
##	730	27.9930	27.8644	26.3957	25.0787	24.2376	23.3662
##	731	29.0702	28.9576	27.5533	26.9678	27.1043	99.0000
##	732	27.7334	27.4050	26.4771	25.5148	25.4553	24.7178
##	733	26.3412	26.0033	25.6003	24.9510	24.5995	24.0068
##	734	26.1349	26.7305	26.5350	26.1353	26.1861	26.1410
##	735	27.1515	27.3057	27.1437	25.9098	25.2738	24.6821
##	736	27.7041	27.0821	26.6329	26.0001	25.7705	25.2782
##	737	99.0000	27.7350	26.7135	26.4387	26.1225	25.4259
##	738	26.6644	26.7770	26.6267	26.7237	26.4372	26.5900
##	739	25.7410	26.3187	26.1884	26.1027	26.0958	27.1428
##	740	99.0000	29.2276	27.7069	26.5335	25.6737	24.7534
##	741	26.9012	26.4165	26.2988	26.1255	26.1148	25.5678
##	742	25.8828	25.0580	24.2515	23.6811	23.1798	22.9835
##	743	26.9608	27.0465	26.3697	26.2700	26.2190	25.8667
##	744	26.9922	26.9800	26.9511	26.8878	27.7265	26.5438
##	745	28.0674	28.0202	27.2809	26.9605	27.3514	26.3589
##	746	24.6645	22.5436	20.9118	20.2203	19.8550	19.6338
##	747	29.5551	27.2525	26.8792	26.3103	26.2714	26.5334
##	748	25.4626	25.2729	24.8489	24.6526	24.3866	23.9877
##	749	28.2475	28.3282	26.9434	26.2687	26.3868	26.0122
##	750	27.8485	27.2948	26.1193	25.6470	25.4799	24.9331
##	751	28.3711	27.5056	26.8019	26.4948	26.5868	25.9298
##	752	26.4126	26.6296	26.3488	25.9955	26.2372	25.4924
##	753	26.1009	25.6011	24.8512	24.1613	24.0219	23.9994
##	754	25.4490	25.3558	25.0249	24.5062	24.1466	23.9723
##	755	25.5948	25.0593	24.0972	23.3792	23.1700	22.9654
##	756	31.3421	29.3940	29.1376	26.9787	25.9819	25.2804
##	757	99.0000	27.3152	25.8600	25.4248	25.1431	25.0860
##	758	28.4407	27.3208	27.6826	26.8927	26.6854	27.2617
##	759	25.5583	25.5793	24.9156	24.3657	24.1502	24.0166
##	760	25.7951	25.5425	24.9694	24.7643	24.7582	24.7452
##	761	99.0000	28.9241	27.3025	26.1166	25.5515	25.1762
##	762	27.3278	25.9651	25.2427	24.2586	23.7638	22.8840
##	763	99.0000	28.2692	28.1055	26.7215	26.2304	28.2854
##	764	26.6701	27.0507	26.9534	26.3692	25.6042	25.4900
##	765	26.4885	26.0154	25.5884	25.1061	24.7754	24.4775
##	766	27.4272	27.1817	26.4120	25.8322	26.0377	25.6555
##	767	24.4307	24.4831	24.3180	24.3657	24.5185	24.1745
##	768	28.6113	27.8474	26.6800	24.9486	24.2933	23.3947
##	769	99.0000	28.0260	26.2920	25.8429	25.2210	25.1695
##	770	29.9889	28.4232	27.7492	26.9615	26.2671	25.3650
##	771	24.5049	23.7876	22.9964	22.7659	22.5265	22.4745
##	772	28.5580	26.9408	26.3938	25.5753	25.3122	25.1769
##	773	26.4892	26.4942	26.3643	26.1354	26.4937	25.7970
##	774	29.3407	32.3031	28.1429	26.9143	26.6633	26.4688
##	775	23.2148	22.3941	21.3457	21.0036	20.8348	20.5427
##	776	25.3161	25.1454	24.5848	24.0893	23.9432	23.9309
##	777	26.0145	25.5579	25.0323	24.2871	23.9484	23.7754
##	778	26.4107	25.9316	25.2600	24.4715	24.3057	24.1356
##	779	25.1487	25.0724	24.9554	24.8550	24.6934	24.2742
##	780	27.4361	27.9825	26.9155	26.4879	26.2968	28.4916
##	781	25.9756	26.1835	25.6067	25.0817	24.4447	24.0942
##	782	26.9858	26.8166	26.5112	25.6065	25.5684	24.9817
##	783	21.7215	20.7672	19.9819	19.7292	19.4735	19.4461

##	784	24.8509	24.6580	24.3731	23.8711	23.2913	22.7088
##	785	29.8229	99.0000	27.8689	26.8375	26.8790	28.0045
##	786	28.9774	28.1734	27.3782	26.8960	26.4855	26.2335
##	787	99.0000	27.7977	28.0113	26.9533	27.4551	27.0326
##	788	27.5113	27.0579	25.6235	24.5289	24.2416	23.8103
##	789	99.0000	27.7499	26.8824	26.9620	26.8278	27.0841
##	790	25.7052	24.4781	23.9758	23.6352	23.5175	23.3387
##	791	26.9136	26.7263	26.8978	26.7754	27.4267	26.7343
##	792	26.6506	26.7749	26.5828	26.2014	26.2575	25.5754
##	793	27.3916	27.4414	27.2265	26.8522	26.4722	26.1142
##	794	28.1099	26.4051	25.0618	23.9375	22.9633	22.2044
##	795	30.5556	28.5376	27.4216	25.7560	24.6030	23.8133
##	796	23.3144	23.1315	22.5990	21.9830	21.8420	21.7913
##	797	25.0927	24.8315	23.6063	22.6589	21.6757	21.0691
##	798	27.2286	26.2200	25.5109	24.8386	24.0476	23.7709
##	799	24.3435	23.8622	23.1087	22.6515	22.5174	22.4038
##	800	26.5972	26.3227	25.8365	25.3666	24.8251	24.7748
##	801	26.5416	25.8031	25.2296	25.0393	24.9600	25.3456
##	802	24.8174	24.7016	24.2389	24.0397	23.9958	23.8177
##	803	27.4402	27.6345	26.6912	26.0877	25.6573	25.0772
##	804	27.5517	27.7506	27.1375	26.8596	26.3696	99.0000
##	805	99.0000	28.3210	27.4296	26.9180	26.4562	28.8782
##	806	28.5363	27.4053	26.7100	26.0640	26.2714	25.2417
##	807	24.1342	22.9769	22.3293	21.9968	21.8628	21.7306
##	808	99.0000	26.9242	25.4562	24.6548	24.2960	24.0168
##	809	26.7814	26.8832	26.5360	26.0011	26.2026	25.6532
##	810	26.2668	26.1109	26.0153	25.9878	25.9726	25.6165
##	811	24.7036	24.5121	24.0194	23.5128	23.3780	23.2564
##	812	28.8032	27.9682	27.0796	26.0774	25.3250	24.3312
##	813	27.0899	26.5964	26.1370	25.6555	24.9988	24.4830
##	814	26.3468	26.3092	25.6387	25.3830	25.2432	25.2133
##	815	26.6872	25.9890	25.1308	24.3830	23.8257	23.1229
##	816	27.5627	27.6210	27.0398	26.4532	25.8537	25.3688
##	817	29.5245	27.9911	27.2229	26.7647	26.5536	26.3514
##	818	28.9612	28.6634	28.1678	26.3595	25.8875	24.9158
##	819	24.9580	22.7981	21.1401	20.3251	19.9303	19.6578
##	820	27.4121	27.3996	26.6346	26.5729	26.0584	26.0138
##	821	24.5656	24.1491	23.3821	22.5344	22.2246	22.0387
##	822	23.8137	23.0285	22.3177	21.6227	21.4548	21.2749
##	823	27.0253	26.6497	26.6514	26.0881	25.6297	25.1678
##	824	27.5982	27.2545	26.4385	25.8653	25.5067	25.1635
##	825	27.4586	26.8496	26.3403	25.5644	25.0496	25.1186
##	826	26.8179	27.2903	26.9057	26.3391	25.7969	25.2109
##	827	25.6623	25.0498	24.6855	24.5248	24.4359	24.1475
##	828	26.9838	27.8966	26.6227	25.8357	25.3789	24.8486
##	829	99.0000	27.7626	26.7750	26.1748	25.5985	25.1347
##	830	26.6945	26.4067	26.3602	25.9315	25.6986	25.0812
##	831	28.2123	32.3913	27.1901	26.5166	26.3533	25.6037
##	832	27.6479	26.4666	25.7451	25.4450	25.3114	25.3922
##	833	27.0335	28.1300	27.5699	26.7675	26.6550	26.6812
##	834	99.0000	27.1086	26.4240	25.6322	25.1824	25.0011
##	835	26.6463	25.8386	24.8303	24.0730	23.9191	23.6230
##	836	27.1786	27.5678	27.1779	26.7521	26.3139	27.1624
##	837	30.7587	28.4034	27.4576	26.7073	25.2414	24.4158
##	838	25.6882	25.6761	24.9967	24.7307	24.6732	24.1380
##	839	28.4695	26.7311	25.8324	25.3807	25.2008	24.8744
##	840	26.1190	26.0932	25.9420	25.7274	25.4476	25.1663
##	841	27.3215	26.9466	26.1038	25.3679	25.3477	25.2460
##	842	99.0000	27.9010	26.8127	26.0845	25.3389	25.0077
##	843	22.4724	20.8844	19.5779	19.0539	18.7436	18.4975
##	844	27.6427	26.4094	24.9952	24.5269	24.2564	24.0512
##	845	99.0000	27.5419	27.7182	26.9461	26.3415	26.6412
##	846	27.3650	27.0471	26.6265	26.4512	26.0680	25.9384
##	847	27.5439	27.0483	26.7956	26.4784	25.6716	24.8203
##	848	24.4468	24.1425	23.5624	23.4532	23.1703	23.1720
##	849	26.3756	25.6556	25.1799	24.8893	24.7418	24.7670
##	850	25.9924	25.9385	24.8044	23.8177	23.4069	22.9936
##	851	28.1133	27.5612	26.6047	26.1764	25.8956	27.0384
##	852	25.6965	25.5062	25.4558	25.3545	25.1461	24.9326
##	853	24.9158	24.6546	24.1205	23.5586	22.8694	22.5552
##	854	28.7130	27.2050	26.0268	25.5257	25.2406	25.0302
##	855	23.0820	21.8536	21.2260	20.8811	20.6910	20.5125
##	856	99.0000	27.9860	25.8037	24.7908	23.7876	23.1590
##	857	26.2769	26.0296	25.1024	24.8189	24.5930	24.6789
##	858	26.5944	26.5918	26.1139	25.9309	25.9006	27.0051
##	859	25.0702	24.2162	23.3516	23.1184	22.8794	22.7804
##	860	28.5514	27.8474	26.8164	25.0289	24.2560	23.3862
##	861	27.4436	27.5904	27.5729	26.5546	26.3239	26.9693
##	862	28.8198	99.0000	29.4085	26.7994	25.8796	25.0563

##	863	27.2312	26.5164	26.1476	26.1232	25.6657	28.1914
##	864	28.4791	28.3536	27.2811	26.9559	26.8652	27.1983
##	865	99.0000	31.0968	27.7944	26.6324	25.8724	24.8197
##	866	28.2548	27.2703	25.7738	24.6697	23.9836	23.7116
##	867	28.7975	28.0722	26.5327	25.1567	24.2840	23.3888
##	868	26.0294	24.8679	23.8951	23.5356	23.2537	22.9948
##	869	28.1827	28.5560	26.9267	26.3981	26.2152	25.4071
##	870	27.3733	27.4616	27.6103	26.9759	26.5029	26.0879
##	871	27.9433	26.7587	25.9411	24.9012	24.4472	24.2167
##	872	26.3689	25.4854	24.0475	23.6222	23.4289	23.1723
##	873	25.5983	25.4544	25.3599	25.4151	25.3740	25.9791
##	874	26.5926	25.7011	24.8743	24.5010	24.3353	24.1178
##	875	27.4126	27.5081	26.8570	25.8799	25.9490	25.5199
##	876	26.2324	26.5076	26.4010	25.9595	25.5844	24.8432
##	877	27.4705	27.1082	26.2692	25.8760	25.8190	26.1706
##	878	25.8021	24.8071	23.9116	23.6134	23.3923	23.3438
##	879	27.1364	27.8245	27.4346	26.9374	26.5091	99.0000
##	880	25.8944	25.3133	24.9336	24.7141	24.6091	24.8702
##	881	26.1081	25.6966	24.7463	24.2345	24.0246	23.9258
##	882	26.8424	26.8126	26.6439	26.7884	26.9223	26.8273
##	883	25.9159	25.5547	24.9184	24.2610	23.7302	23.4796
##	884	27.8035	27.3554	26.7106	26.2154	26.0957	25.4892
##	885	27.8094	27.6105	27.1544	26.6892	26.2200	25.5422
##	886	29.8832	28.2209	28.0881	26.7137	26.2103	26.9049
##	887	28.8852	27.7260	27.1473	26.2552	25.9114	26.7082
##	888	28.1386	27.5976	27.0436	26.6854	26.6067	25.8586
##	889	26.2652	25.6942	24.8527	24.0960	23.2645	22.7420
##	890	26.6181	26.3253	25.1227	24.8906	24.7495	24.6070
##	891	26.7327	27.2942	26.4775	25.6340	25.4055	25.1346
##	892	28.0317	28.6924	27.5428	26.8557	26.4794	27.8476
##	893	29.3944	27.9080	27.4128	25.5085	24.9029	23.9331
##	894	29.0179	29.5258	27.4417	26.4034	25.4697	25.0811
##	895	28.1807	28.1373	27.1585	26.8917	26.7597	26.4737
##	896	27.5455	28.3773	27.2858	26.6989	26.0581	25.5398
##	897	28.2762	27.6864	26.9354	25.9274	25.0444	24.5315
##	898	24.7724	24.0567	23.2628	23.0076	22.8031	22.7278
##	899	26.7355	26.3366	25.0203	24.4978	24.2311	23.9471
##	900	26.2352	25.7467	25.4683	25.0718	24.5965	24.1116
##	901	26.7398	26.7200	26.8981	26.5635	27.3971	26.7306
##	902	24.1342	23.1664	21.8972	21.3238	21.0251	20.8116
##	903	26.6927	27.1312	26.3949	26.0334	25.6009	26.1640
##	904	24.1264	22.5053	21.1854	20.6748	20.3862	20.1718
##	905	29.8482	28.5203	27.4654	26.6239	26.9109	28.0026
##	906	28.3169	27.6915	27.3250	26.8882	26.4065	25.7291
##	907	99.0000	28.9236	27.9968	26.9293	26.6381	26.1188
##	908	28.5031	27.3456	25.7321	24.8915	24.4738	24.2431
##	909	27.7736	26.4277	25.9133	25.5489	25.0028	24.2262
##	910	26.5527	25.9201	25.4569	24.8000	24.4665	24.3808
##	911	29.5539	27.2447	26.3646	25.8458	25.7528	25.3403
##	912	24.5544	23.6987	23.3385	23.1336	23.0879	23.0394
##	913	28.9012	28.5700	27.1297	26.9313	27.2705	26.4141
##	914	25.0233	24.4147	23.0338	22.0240	21.2965	21.0033
##	915	26.3696	26.2757	25.2217	24.3862	24.2057	24.0928
##	916	25.0938	23.4788	21.9935	20.9463	20.5793	20.2627
##	917	29.7791	28.2584	27.2820	26.6169	27.0076	26.0568
##	918	25.5522	24.8686	24.3449	24.2009	24.0831	24.0799
##	919	30.3310	28.8665	27.7019	26.9887	26.3040	26.0218
##	920	27.5183	26.3577	26.0194	25.5855	25.0024	24.7623
##	921	26.5594	26.9035	26.0912	25.3296	25.2193	25.2240
##	922	24.8167	24.0351	23.3940	23.2290	23.0202	23.0578
##	923	25.2073	25.0366	24.3394	23.5194	23.0463	22.9388
##	924	29.6790	28.5377	27.6517	26.8324	26.9125	28.4815
##	925	99.0000	29.5798	27.3619	26.7347	25.7971	25.3122
##	926	26.9319	25.8755	24.5532	23.5884	23.2927	23.0469
##	927	27.6088	27.1341	26.6044	25.8334	25.4546	25.2727
##	928	26.4426	24.9453	23.2420	21.9423	21.4435	21.0509
##	929	29.3577	27.9935	27.2049	26.7411	26.6078	26.6299
##	930	23.5436	23.0393	22.1155	21.4071	21.2047	20.9997
##	931	26.9547	27.3115	26.9594	26.8531	26.3067	26.4064
##	932	26.4925	26.8121	26.0499	25.6012	25.5388	25.4938
##	933	99.0000	27.5683	27.1008	26.5321	26.4091	25.7739
##	934	26.0287	26.2472	25.9212	25.8124	25.9006	27.4840
##	935	26.7255	25.9846	25.2791	24.8494	24.7546	24.4863
##	936	27.2143	26.9368	26.7010	25.8982	25.9076	25.1857
##	937	28.1400	27.3496	26.6537	26.4233	26.4724	27.1668
##	938	27.4525	27.0121	25.6109	24.9863	24.7131	24.4749
##	939	27.5361	27.9712	27.6643	26.9894	26.3135	25.8121
##	940	30.1824	28.5213	27.6915	26.3552	26.3407	26.1702
##	941	26.9452	26.3059	25.5264	25.2507	25.0267	24.8298

##	942	28.4075	27.1414	26.9242	26.5714	26.4399	25.1770
##	943	27.2630	26.2672	25.5703	25.3097	25.0801	24.9174
##	944	32.7086	26.4397	25.0351	24.6717	24.4696	24.4534
##	945	26.8276	26.4237	25.3800	24.3315	24.0352	23.9359
##	946	25.1567	24.3907	22.9699	21.9316	21.5355	21.1897
##	947	26.4120	27.4219	27.1061	26.6317	26.5921	99.0000
##	948	99.0000	28.9582	27.7671	26.1450	25.2890	24.7592
##	949	26.6489	25.8602	25.0554	24.5719	24.4030	23.9470
##	950	25.9108	25.5931	24.7475	23.7250	23.3021	23.1534
##	951	26.2346	25.7475	25.1161	24.2872	23.7775	23.0090
##	952	25.5733	24.8879	23.9127	23.5579	23.4414	23.0124
##	953	25.5478	25.2481	24.7153	24.2121	23.5765	23.2045
##	954	27.3804	26.5709	26.4449	26.0284	25.6131	25.3837
##	955	27.6410	27.1336	26.8586	26.8224	26.7147	99.0000
##	956	27.9360	27.0701	26.4170	25.5389	24.6874	23.8475
##	957	21.9722	20.5482	19.2293	18.7054	18.4347	18.1962
##	958	27.4759	26.9354	25.8489	25.0233	24.1742	23.9280
##	959	27.7327	27.7697	27.0539	26.4928	26.0763	25.7696
##	960	31.8332	27.9320	27.0242	25.8032	25.3267	24.9874
##	961	26.4260	26.2525	25.6396	24.9397	24.4922	24.6369
##	962	26.6427	26.2199	25.5141	24.9918	24.8732	24.9867
##	963	25.8257	26.0866	25.9088	26.0530	25.8923	25.7783
##	964	26.5660	26.4342	26.4191	26.2247	26.0092	25.4375
##	965	27.6686	27.0220	26.8758	26.7332	26.6972	26.0247
##	966	30.0829	28.6000	27.3384	25.5883	24.4321	23.7244
##	967	29.2309	27.4021	26.6628	25.3637	24.8371	24.2408
##	968	27.3503	27.5931	26.8709	26.0587	26.1847	25.8477
##	969	24.8263	24.2837	23.1998	22.3431	22.0554	21.7264
##	970	28.7335	28.2178	27.6009	26.8691	26.6352	26.7683
##	971	25.0087	24.3866	23.3178	22.2682	21.7539	21.4374
##	972	27.1923	27.2328	26.5064	25.6545	25.3454	25.8039
##	973	29.2898	28.7567	28.2962	26.8806	25.9478	25.8033
##	974	28.0745	27.5201	27.3510	26.7355	27.3968	28.1622
##	975	25.2339	25.1736	24.7621	24.0571	23.8218	23.7901
##	976	28.1250	25.7418	24.8291	24.4826	24.2138	24.0651
##	977	26.2840	26.6206	26.7324	26.5684	28.2541	30.6207
##	978	25.9049	26.0664	25.8510	25.4694	25.2737	25.2212
##	979	28.3228	28.1346	27.1668	26.7707	26.5065	25.9408
##	980	99.0000	27.8768	26.7923	25.3881	24.2431	23.4894
##	981	27.3836	27.3110	26.8683	26.5563	25.7521	26.8088
##	982	31.6187	28.4729	28.1338	26.9063	27.0378	26.2216
##	983	99.0000	28.0802	26.4441	25.6929	25.3049	25.9983
##	984	26.6915	26.0478	25.1444	24.7347	24.5526	24.3025
##	985	28.1822	27.0771	26.1748	25.0914	24.7942	24.3203
##	986	27.5875	27.0131	26.6877	26.3224	25.9569	25.2696
##	987	27.8976	26.9159	25.6058	25.0754	24.9848	24.5854
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##	990	99.0000	28.0348	26.9674	26.2725	26.1820	26.7111
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##	992	28.9317	28.1823	27.1905	26.6717	26.6680	99.0000
##	993	28.0921	27.5300	26.3568	25.9457	25.6424	25.8704
##	994	27.7328	28.1681	27.5272	26.8816	26.4084	25.3134
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##	1006	27.3801	27.7753	26.8876	26.6231	26.6192	26.5579
##	1007	27.4922	28.0786	26.0243	24.8461	24.1697	23.9380
##	1008	26.7987	26.5922	25.8725	25.1792	24.6877	24.5623
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##	1016	99.0000	27.2407	26.6059	26.1456	26.0179	25.8543
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2116 27.4099 26.8583 26.0924 25.6778 25.4983 25.4746
2117 26.5483 26.6043 26.6985 26.7126 27.3769 28.8090
2118 25.0787 24.2433 23.6077 23.3157 23.2007 23.1312
2119 28.2219 27.7327 27.1351 26.9237 25.9489 25.7060
2120 27.6995 27.7732 27.3600 26.7087 27.1425 28.0874
2121 26.4550 26.5890 26.3994 26.0147 25.6546 25.6019
2122 27.3812 28.1610 26.9746 26.6057 26.7058 25.6268
2123 27.2185 26.9778 26.0588 25.7173 25.3337 25.3825
2124 27.6100 27.4617 26.3814 26.0599 25.9649 25.5756
2125 29.6028 30.3515 28.4442 26.4630 25.8874 25.1989
2126 24.2475 23.9739 23.4223 22.7733 21.9753 21.5728

##	2127	28.2274	28.2862	27.1872	26.4046	25.6060	25.0190
##	2128	27.7194	26.9919	26.0622	25.6296	24.7183	24.7680
##	2129	28.0117	29.3536	27.4049	26.9485	25.5305	24.5022
##	2130	26.8029	27.2933	26.7688	26.5372	26.5299	25.7533
##	2131	28.5676	27.9675	26.9081	26.3802	26.0538	25.2130
##	2132	28.4035	27.6894	26.7587	25.9832	25.8643	25.4065
##	2133	26.6791	26.4855	25.4054	24.9367	24.6853	24.3993
##	2134	27.7027	27.9111	27.0384	26.1716	25.4789	25.0994
##	2135	28.2777	26.4821	25.8355	24.9932	24.4285	24.1667
##	2136	29.4357	28.2793	27.2525	26.7726	26.3112	26.1113
##	2137	99.0000	33.9851	27.8138	26.5209	25.8356	25.3668
##	2138	26.4675	26.0064	25.3502	25.1944	25.1126	25.1330
##	2139	27.7107	28.0041	27.1102	26.5142	26.2907	26.1221
##	2140	99.0000	26.8103	25.9892	25.0869	24.6748	24.7374
##	2141	31.4949	26.6263	25.8970	25.3224	24.5041	23.9082
##	2142	25.5387	24.8655	23.9331	23.3798	23.1941	22.9785
##	2143	26.3885	25.2877	24.6964	24.3750	24.2989	24.0185
##	2144	99.0000	28.3315	27.3751	26.1979	25.4084	24.8762
##	2145	26.7261	26.3804	26.2678	26.0155	25.9657	25.4581
##	2146	30.0354	27.8609	26.1996	25.3387	24.9724	24.5474
##	2147	25.6997	25.3530	24.8285	24.1071	23.6776	23.5168
##	2148	30.4207	99.0000	27.6028	26.7539	25.9280	25.3908
##	2149	26.5880	26.1829	25.5480	24.9524	24.7912	24.6369
##	2150	25.1965	24.4414	23.3650	23.0461	22.8449	22.6486
##	2151	26.5176	26.4196	25.5305	24.7934	24.3653	24.0778
##	2152	99.0000	28.3971	27.4129	26.8452	26.8406	26.4841
##	2153	25.3129	24.5159	24.1418	23.9569	23.9166	23.8715
##	2154	24.0458	23.1934	22.5787	22.2596	22.1674	22.0355
##	2155	24.7579	24.3530	23.5858	23.3290	23.1926	23.0609
##	2156	25.9028	25.8449	25.5511	25.3132	24.9507	24.6878
##	2157	27.4004	27.2141	26.9475	26.4244	26.1232	25.1356
##	2158	28.2118	26.9665	26.5221	25.8718	25.4280	25.5353
##	2159	27.8184	27.9511	27.7369	26.7866	26.6321	26.5700
##	2160	26.2877	26.0378	25.5919	25.0169	24.4566	24.1753
##	2161	26.6137	26.1243	24.1583	23.0944	22.0968	21.4728
##	2162	24.8956	23.9418	23.3676	23.1011	23.0376	22.9631
##	2163	23.8595	23.9306	23.8091	23.8631	23.9455	24.0894
##	2164	99.0000	26.9397	26.2635	26.0253	25.8270	25.5940
##	2165	31.4074	27.5963	27.1300	26.9113	26.4323	26.1868
##	2166	27.0869	26.3846	25.8623	25.3673	25.2434	25.2695
##	2167	29.2278	28.0288	26.8025	26.2477	25.3908	24.6295
##	2168	26.9511	27.2281	26.8953	26.5202	26.1076	25.7984
##	2169	24.9472	24.1369	23.3450	23.1980	22.9139	22.9781
##	2170	29.4569	28.0404	27.2333	26.6499	26.7185	26.2236
##	2171	26.7779	26.4721	25.8274	25.0695	24.5970	24.2978
##	2172	25.0670	22.9449	21.3593	20.6874	20.3492	20.1506
##	2173	26.8303	27.0274	26.6709	26.2382	25.8021	25.4143
##	2174	25.5430	25.2826	25.2450	25.0364	24.6978	24.4091
##	2175	26.8213	26.5017	25.9349	25.6312	24.8430	24.4621
##	2176	26.7141	25.3256	23.5974	22.3678	21.7304	21.3945
##	2177	31.3138	30.3469	28.0706	26.6927	25.9168	25.3806
##	2178	23.0088	21.5140	20.6995	20.2463	19.9899	19.7834
##	2179	22.7827	22.2198	21.6508	21.4222	21.2364	21.1502
##	2180	24.3287	24.0954	23.5379	23.1111	23.0597	22.9231
##	2181	99.0000	29.0731	27.3019	25.8715	25.0456	24.4536
##	2182	27.6828	26.3168	25.0383	24.0246	23.6595	23.2898
##	2183	27.3310	26.5610	25.5943	25.4010	25.2547	24.9507
##	2184	99.0000	26.9518	26.1148	25.6227	25.4036	25.0937
##	2185	26.6348	26.2389	25.3209	24.6627	24.3602	24.1096
##	2186	25.5767	25.0043	23.9825	23.0422	22.4048	22.1297
##	2187	27.6189	27.3406	26.0145	25.4808	25.3716	25.1975
##	2188	28.7271	26.3106	24.7137	23.7661	23.3934	23.1154
##	2189	28.1247	28.3339	27.8938	26.8937	26.9281	26.0301
##	2190	28.4387	28.3237	25.9763	24.8167	23.7352	23.0606
##	2191	24.1858	22.0232	20.3907	19.5766	19.1923	18.9443
##	2192	28.8543	28.9588	27.7025	26.9773	26.0595	25.7339
##	2193	25.6333	25.7081	25.6192	25.8707	25.6908	27.6428
##	2194	99.0000	31.7990	27.5102	25.7700	25.0462	24.0571
##	2195	26.6147	26.6958	26.3932	26.6829	27.0849	27.3669
##	2196	29.4115	27.7852	27.6384	26.6674	27.0481	27.6760
##	2197	27.8050	26.7650	25.8506	25.6687	25.2718	25.3594
##	2198	27.4523	28.6046	27.3666	26.7234	26.5334	26.2606
##	2199	21.6796	20.8307	20.2080	19.8987	19.7643	19.6314
##	2200	26.5746	26.1812	26.2591	26.1232	25.9533	26.8472
##	2201	29.6568	27.2956	25.9207	25.0157	24.6130	24.3374
##	2202	27.7046	27.5642	26.4346	25.6954	24.8766	24.4934
##	2203	28.4254	27.0119	26.2921	26.2894	25.9254	25.7356
##	2204	30.9680	27.8098	26.7977	26.2970	25.7899	25.7752
##	2205	27.1037	27.3418	26.9984	26.6974	26.5361	26.0185

2206 26.6525 26.5312 25.7481 25.6340 25.4360 25.6896
2207 26.0192 25.6551 25.3760 25.1228 24.7962 24.3470
2208 26.6571 26.1086 25.3240 25.2471 25.0929 24.7865
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2210 99.0000 28.2810 27.5228 26.5477 25.7008 25.7363
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2213 28.2948 28.5584 27.2047 26.8102 26.2431 25.2914
2214 99.0000 28.1028 27.0114 25.6886 25.2543 24.7066
2215 28.9863 27.9491 26.9446 26.1056 25.2160 24.9701
2216 26.5956 25.9371 25.5331 25.0073 24.2666 24.0887
2217 27.6896 28.2510 27.1796 26.6206 26.0666 26.2727
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2222 28.5276 26.9183 26.1444 25.6595 25.3761 25.8768
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2246 99.0000 25.9277 24.1938 22.9305 22.3620 22.0390
2247 22.2450 21.0352 19.9916 19.4520 19.1910 18.9145
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3848 28.3102 28.3407 27.5721 26.8973 25.8327 26.3791
3849 25.2475 25.1516 24.6696 24.5490 24.5789 24.6334
3850 28.0869 26.2573 24.9787 23.8176 23.1182 22.8246
3851 27.0987 26.4524 25.9952 25.8344 24.9279 24.7705
3852 28.9165 28.0527 27.3343 26.6249 26.8998 26.0418
3853 28.2527 27.4029 26.7865 26.5007 26.4747 25.6505
3854 25.4288 24.6632 23.7429 23.4774 23.2525 23.2632
3855 24.4280 24.0985 23.5866 23.5521 23.3003 23.5109
3856 28.1992 27.8629 25.8650 24.8553 24.6440 24.4472
3857 28.9503 27.4953 26.9887 26.5538 26.2901 26.2199
3858 28.6770 26.9174 26.4501 25.9492 25.9709 25.5171
3859 28.5354 27.8331 26.9640 26.0525 26.1538 26.7956
3860 29.2741 26.9544 26.2755 25.8750 25.8871 27.1499
3861 26.6595 26.0131 25.4111 24.8668 24.1802 23.8314
3862 99.0000 28.6672 28.0722 26.6993 26.3103 26.0620
3863 26.4612 26.1642 24.3699 23.2674 22.4275 22.0499
3864 28.0189 27.7142 27.0228 26.6239 26.8513 26.5793

3865 26.9597 26.8018 26.3570 26.5249 25.6472 25.8767
3866 28.4143 28.2468 26.7333 25.4087 24.8284 23.7213
3867 27.8102 27.1288 27.2839 26.1966 26.3445 25.5863
3868 27.1896 26.4980 25.9506 25.1652 24.5640 23.8411
3869 99.0000 27.7800 27.2043 26.5971 26.1963 27.1725
3870 28.7429 27.1800 26.5819 26.0828 25.3846 25.1406
3871 28.3983 26.8836 25.5553 24.6981 24.3258 23.8618
3872 27.2152 26.8479 26.1818 25.4933 25.0390 24.7260
3873 25.1157 25.0980 24.9838 24.9676 24.9131 24.5991
3874 99.0000 27.1515 25.9019 24.9853 24.1083 23.7306
3875 28.6073 28.1488 26.7722 26.4014 26.0363 25.4709
3876 24.3082 23.5716 23.2689 23.0731 23.0519 23.0912
3877 26.4129 26.5122 26.5426 26.3643 26.6343 26.5352
3878 24.7177 22.7008 21.1027 20.3841 20.0139 19.7699
3879 28.3380 27.2833 26.5031 25.9241 25.2793 24.9859
3880 26.0782 25.8773 25.8979 25.8432 26.2471 99.0000
3881 28.6328 27.8294 26.9644 26.9746 25.8517 26.3403
3882 23.2103 22.5863 21.6252 21.3328 21.1405 21.0400
3883 27.7849 26.7088 26.0039 25.8414 25.5438 25.4163
3884 26.6321 26.5022 25.2462 24.1822 23.4592 23.1721
3885 27.8111 27.9092 27.0813 26.9609 26.4509 26.5239
3886 24.8680 24.1031 23.0763 22.5610 22.3425 22.0911
3887 26.8041 26.4434 25.3274 25.1170 24.8600 24.7372
3888 27.3589 26.7338 25.9514 25.3926 25.2466 24.9813
3889 27.3649 26.5800 25.5192 24.6043 24.3063 24.0231
3890 26.7650 25.7809 24.7910 24.3929 24.1201 23.9638
3891 27.1349 26.4607 26.3295 26.0330 26.1376 25.3430
3892 29.3190 28.4615 28.3575 26.8019 25.6226 25.0000
3893 28.9656 28.6225 27.4799 26.5727 26.6325 25.7361
3894 24.9580 24.6719 23.9373 23.1840 22.3453 21.8219
3895 24.7548 24.0676 23.1212 22.8911 22.6777 22.6971
3896 27.0666 27.1976 26.2797 26.2275 26.0868 25.4988
3897 30.6996 27.5105 26.5150 26.5458 26.5021 27.0664
3898 27.4201 27.2319 26.3851 26.0895 25.8682 26.0465
3899 28.7446 27.0046 26.6581 26.3828 25.6044 25.3227
3900 26.7120 26.6828 25.8870 25.2113 25.1010 24.8978
3901 27.3207 27.9823 27.1897 26.6668 26.0850 25.4921
3902 26.1572 26.5947 26.2886 26.0780 26.0493 27.0361
3903 24.2228 23.2320 22.3860 21.9853 21.7895 21.5813
3904 27.2729 27.3957 27.6748 26.5834 25.9380 25.5890
3905 30.1026 27.4216 26.4850 25.8818 25.7528 25.2339
3906 29.7818 30.6990 27.1527 26.9105 26.6201 25.4191
3907 99.0000 28.1931 27.3915 26.3332 26.3611 25.7887
3908 22.4462 20.8510 19.5821 19.0945 18.8532 18.6102
3909 29.7278 28.4284 27.1575 25.9030 25.5190 24.9419
3910 24.9108 24.7949 24.2054 23.5931 23.3958 23.1607
3911 99.0000 27.3314 26.8176 26.1345 26.1442 25.7709
3912 26.0076 25.4935 24.6958 24.5327 24.3792 24.3518
3913 26.8620 26.1535 25.8767 25.3419 25.1431 24.2588
3914 99.0000 29.1517 28.5663 26.8733 26.7487 25.2981
3915 29.2859 27.7908 27.0909 26.3838 25.8557 25.1490
3916 26.4463 25.9135 24.8469 23.8693 23.4502 23.1607
3917 25.0753 24.9200 24.5270 23.8561 23.5028 23.4269
3918 24.4450 22.9722 22.1932 21.8131 21.6048 21.4515
3919 27.5029 27.5186 26.3684 25.7143 25.4754 25.7028
3920 25.8638 25.6346 25.4127 25.0351 24.4925 24.5185
3921 24.9383 24.0647 22.9611 22.4081 22.1796 21.9048
3922 26.9585 26.6550 26.2921 25.9111 25.2577 24.9168
3923 28.2816 25.7989 25.0521 24.7382 24.6192 24.4874
3924 28.4280 27.8148 27.3134 26.6286 25.8251 25.1246
3925 27.9274 27.5948 27.9349 26.4891 26.5802 26.5416
3926 27.3381 26.7202 26.7404 26.4573 27.0364 26.5957
3927 26.9724 26.1248 24.7426 23.5221 22.7190 21.8760
3928 29.0611 27.4345 26.6587 26.3678 26.6053 26.0544
3929 26.8637 25.5963 23.8267 22.5798 21.9687 21.6262
3930 26.2975 25.8559 25.5963 25.1183 24.8288 24.1145
3931 30.5255 27.8444 26.4501 24.8355 24.0865 23.1019
3932 28.3532 27.8254 27.2574 26.6837 26.1782 26.4999
3933 99.0000 27.8645 27.6806 26.5842 26.1292 25.4034
3934 23.8877 23.9185 23.7776 23.4272 23.0178 22.7373
3935 28.0721 28.2129 26.9438 25.9855 25.7150 25.7664
3936 27.2414 26.8505 26.3472 25.8355 25.4060 25.0679
3937 27.4652 26.3181 25.8188 25.2957 24.8661 24.6823
3938 24.5716 23.6925 22.6793 22.0607 21.8279 21.6052
3939 27.0235 27.0392 26.9183 26.2423 26.3496 25.8464
3940 28.8235 29.0933 28.1775 26.8693 27.9252 27.3368
3941 25.5064 25.8497 25.8281 25.5404 25.5730 25.9316
3942 99.0000 27.9446 27.1401 26.4295 26.4566 26.6194
3943 99.0000 27.1894 26.2314 25.8520 25.5391 25.9073

```
## 3944 26.7572 26.9306 26.7122 26.4128 26.3670 26.0348
## 3945 25.4544 24.6879 23.5735 23.0990 22.8870 22.4919
## 3946 26.4708 26.2826 25.3846 25.2118 25.1341 24.8741
## 3947 26.7902 26.8888 26.5739 26.3044 26.1583 25.8055
## 3948 27.4826 27.5120 26.9083 26.2053 25.5203 25.1218
## 3949 28.0102 27.4836 26.0120 25.1604 24.7977 24.6422
## 3950 28.5198 29.1291 27.3843 26.5979 25.8457 25.3519
## 3951 26.5574 25.9939 25.1036 24.8603 24.6582 24.7485
## 3952 28.1576 26.1464 25.1807 24.5038 24.4112 24.2292
## 3953 27.4451 26.9548 26.3113 26.2885 25.9208 25.7841
## 3954 25.8469 25.8530 25.4020 24.8850 24.8032 24.6805
## 3955 25.9243 24.8972 23.8234 22.7742 22.3768 22.0707
## 3956 27.3157 26.7890 26.0436 25.8159 25.6436 25.0680
## 3957 27.5396 27.6917 27.1981 26.6823 25.9408 25.3183
## 3958 26.4279 26.0577 25.6240 25.4364 25.5347 25.3751
## 3959 26.7548 26.7082 26.8070 26.7056 26.8689 27.0449
## 3960 24.1775 23.5246 22.5809 21.6534 21.1959 20.9520
## 3961 24.0787 23.0983 22.6345 22.3714 22.3525 22.2775
## 3962 27.3188 27.1874 26.2736 25.6061 25.6004 25.3874
## 3963 29.0372 27.6440 27.6004 26.9915 26.3193 25.6999
## 3964 26.3731 26.2490 25.9173 25.4412 25.1415 24.6389
## 3965 27.5040 27.4615 26.8494 26.3682 25.9400 25.3719
## 3966 28.4916 29.0827 28.0194 26.5202 26.3679 26.0443
## 3967 27.0921 26.6557 25.7026 25.4729 25.3285 24.8701
## 3968 27.7821 26.9981 25.0026 23.5516 22.6836 21.7591
## 3969 27.7506 27.1027 27.2144 26.4521 26.2550 25.4985
## 3970 99.0000 29.3088 26.6906 25.3966 24.8108 24.7654
## 3971 26.8560 27.0203 25.7138 24.9001 24.6893 24.2431
## 3972 26.6911 26.5504 26.0778 25.4922 25.0740 24.9647
## 3973 26.1724 26.4099 26.0629 25.7309 25.0886 24.7747
## 3974 26.5900 26.5599 25.9413 25.2050 24.4019 23.9020
## 3975 29.4897 27.8897 27.2914 26.8476 26.2367 26.3903
## 3976 26.4557 25.5707 24.1338 22.9815 22.5412 22.1772
## 3977 26.0889 25.5461 24.7770 24.4013 24.3288 24.2735
## 3978 26.8666 26.3224 25.8120 25.6327 25.6940 25.2583
## 3979 27.7438 27.5144 26.7137 26.4555 25.7544 25.5534
## 3980 27.9665 29.7567 27.2036 26.4134 25.6107 24.6657
## 3981 29.0396 28.2416 28.5384 26.7823 26.4985 28.8714
## 3982 28.6863 28.0837 27.0897 26.4992 26.0114 27.4231
## 3983 25.7559 25.2424 24.5728 24.1179 23.5108 23.3672
## 3984 25.5724 24.1528 22.5512 21.5021 21.0707 20.6867
## 3985 27.9624 27.7839 26.1836 25.0362 24.1396 23.7304
## 3986 27.9214 28.2500 26.9939 26.4325 26.3366 25.7321
## 3987 26.0516 24.6182 22.6922 21.5433 20.7340 20.3968
## 3988 27.0316 26.5737 26.4332 26.1746 25.6920 25.0306
## 3989 24.0584 23.2268 21.9198 20.8655 20.4683 20.1457
## 3990 27.4760 27.1404 26.9071 26.2811 26.2774 26.0811
## 3991 26.7650 26.4906 26.3550 26.2922 26.6070 26.1454
## 3992 31.6246 28.5951 27.7437 25.8916 25.2175 24.3237
## 3993 28.3762 27.9908 26.4772 25.3714 24.3933 23.9108
## 3994 26.8804 26.1671 25.2557 24.5725 23.9136 23.6754
## 3995 30.3357 28.8568 26.8357 25.8092 24.8037 24.0664
## 3996 28.5287 28.2745 27.6059 26.4168 26.3203 24.8008
## 3997 99.0000 28.2762 26.9750 26.5575 26.6851 28.7832
## 3998 27.4794 27.5342 26.6819 26.3471 26.0126 26.7735
## 3999 33.2755 27.5150 26.7404 25.9139 25.2774 24.8151
## 4000 27.0444 26.3310 25.0928 24.6821 24.3717 24.1772
```

Question 8

Hold up...wait a minute...you just filtered the predictors data frame without filtering the response vector. So here you can perhaps do one of two things. First, you could repeat Q7, but use `cbind()` to bind the predictors and response together into one data frame (call it `df`), redo the filter, save the output (`df.new`), then extract `pred.new` as the first 6 columns of `df.new` and `resp.new` as the 7th column. Alternatively, you could use base R functionality to determine which (hint: `which()`) rows to keep or exclude using the logical operators in either Q6 or Q7, then apply the output to `response` directly to define `resp.new`. (I'm sure other solutions exist as well.)

Call me or the TA over (or come to office hours) if you need help with this.

```
df <- cbind(predictors, response)

df.new <- filter(df, u != 99 & g != 99 & r != 99 & i != 99 & z != 99 & y != 99)

pred.new <- select(df.new, u, g, r, i, z, y)

resp.new <- select(df.new, response)

resp.new
```

```
##      response
## 1    0.385261
## 2    1.450010
## 3    1.431700
## 4    1.743960
## 5    0.882537
## 6    0.329310
## 7    1.125750
## 8    1.081800
## 9    0.984996
## 10   0.367319
## 11   0.616165
## 12   0.409866
## 13   1.454670
## 14   1.673280
## 15   0.703766
## 16   0.520498
## 17   1.945500
## 18   1.011500
## 19   1.031820
## 20   0.579718
## 21   0.476257
## 22   0.744881
## 23   1.080800
## 24   0.651263
## 25   1.656140
## 26   0.384161
## 27   1.449090
## 28   1.178080
## 29   1.159000
## 30   1.265940
## 31   0.911993
## 32   0.475066
## 33   0.253240
## 34   1.023790
## 35   1.015450
## 36   0.442374
## 37   0.258702
## 38   0.182244
## 39   0.371196
## 40   0.914457
## 41   1.126180
## 42   0.639463
## 43   0.840406
## 44   0.661680
## 45   0.526496
## 46   0.312680
## 47   1.411950
## 48   0.670046
## 49   1.674670
## 50   1.134720
## 51   1.447110
## 52   0.710594
## 53   1.389650
## 54   0.537597
## 55   0.616506
## 56   0.926961
## 57   0.258341
## 58   0.950214
## 59   1.756280
## 60   1.133400
## 61   0.459499
## 62   1.589740
## 63   1.913790
## 64   1.095720
## 65   0.198030
```

##	66	0.547718
##	67	0.863533
##	68	0.248277
##	69	1.195460
##	70	0.447937
##	71	0.970278
##	72	0.611289
##	73	0.978076
##	74	0.559321
##	75	1.008800
##	76	0.607574
##	77	0.688688
##	78	0.648220
##	79	1.307330
##	80	0.845308
##	81	0.322257
##	82	0.698633
##	83	0.563424
##	84	0.801674
##	85	0.675525
##	86	0.753502
##	87	1.580820
##	88	0.453484
##	89	0.487364
##	90	0.781337
##	91	0.611086
##	92	1.193650
##	93	0.654859
##	94	0.704903
##	95	1.352590
##	96	0.562911
##	97	0.946446
##	98	0.272087
##	99	1.147370
##	100	0.956129
##	101	1.335500
##	102	0.276024
##	103	0.697041
##	104	0.537219
##	105	0.203222
##	106	1.423850
##	107	1.592290
##	108	1.581220
##	109	0.928648
##	110	0.579260
##	111	0.588806
##	112	1.008810
##	113	0.845811
##	114	0.885076
##	115	1.224630
##	116	0.837837
##	117	0.491353
##	118	0.482608
##	119	1.653810
##	120	0.295268
##	121	0.825805
##	122	0.868002
##	123	0.652536
##	124	0.393475
##	125	0.285899
##	126	0.429629
##	127	0.775461
##	128	0.802530
##	129	0.606019
##	130	1.038090
##	131	1.476540
##	132	0.096096
##	133	0.933314
##	134	0.214104
##	135	0.738411
##	136	1.035860
##	137	0.598457
##	138	1.565660
##	139	0.727186
##	140	0.481247
##	141	0.663777
##	142	0.423714
##	143	0.676530
##	144	1.772840

##	145	1.016070
##	146	1.036910
##	147	0.919982
##	148	0.677316
##	149	0.588787
##	150	0.845933
##	151	1.340090
##	152	1.037780
##	153	0.935396
##	154	0.402269
##	155	1.843050
##	156	0.931798
##	157	0.400578
##	158	0.598527
##	159	0.719703
##	160	0.485355
##	161	0.523985
##	162	0.416096
##	163	0.620631
##	164	1.366890
##	165	0.914161
##	166	0.502279
##	167	0.926009
##	168	1.200150
##	169	0.916719
##	170	0.197702
##	171	0.433422
##	172	0.818803
##	173	1.207550
##	174	0.702421
##	175	0.287784
##	176	1.059520
##	177	0.873749
##	178	0.921771
##	179	0.371940
##	180	0.311212
##	181	0.346052
##	182	1.450840
##	183	0.990978
##	184	0.984887
##	185	0.530577
##	186	1.364290
##	187	0.919058
##	188	0.669626
##	189	1.957530
##	190	1.331020
##	191	0.584841
##	192	1.815370
##	193	1.635700
##	194	1.317970
##	195	0.656161
##	196	0.458933
##	197	0.582479
##	198	0.432736
##	199	0.781549
##	200	0.506500
##	201	0.802346
##	202	1.256570
##	203	0.968321
##	204	0.636505
##	205	0.363768
##	206	1.016050
##	207	1.727660
##	208	0.918556
##	209	0.933030
##	210	0.667587
##	211	0.143835
##	212	0.378347
##	213	0.592466
##	214	0.423955
##	215	0.735712
##	216	0.564003
##	217	0.626238
##	218	0.807834
##	219	0.826421
##	220	0.516221
##	221	0.970493
##	222	0.201983
##	223	0.758370

##	224	0.573719
##	225	0.402785
##	226	1.133120
##	227	1.539470
##	228	0.214044
##	229	0.444190
##	230	0.756876
##	231	0.881670
##	232	1.043390
##	233	1.352250
##	234	0.383797
##	235	1.427160
##	236	0.548362
##	237	1.706710
##	238	0.295591
##	239	0.074830
##	240	0.582087
##	241	0.478003
##	242	1.301520
##	243	0.781806
##	244	0.629018
##	245	0.904926
##	246	0.565782
##	247	0.221632
##	248	1.048230
##	249	1.287790
##	250	1.233520
##	251	0.442608
##	252	1.452060
##	253	0.930172
##	254	0.309536
##	255	0.698751
##	256	0.665985
##	257	0.366024
##	258	0.434846
##	259	0.429065
##	260	0.426714
##	261	0.300672
##	262	0.440930
##	263	1.427330
##	264	1.374450
##	265	0.852262
##	266	0.460976
##	267	0.581496
##	268	0.729894
##	269	0.801425
##	270	0.367753
##	271	0.164298
##	272	1.111510
##	273	1.523610
##	274	0.795782
##	275	0.777420
##	276	0.633433
##	277	0.986765
##	278	1.086160
##	279	0.567037
##	280	1.223260
##	281	0.665030
##	282	0.957541
##	283	0.676945
##	284	0.512240
##	285	0.653613
##	286	0.885409
##	287	0.834653
##	288	0.514824
##	289	1.367950
##	290	0.636957
##	291	1.518290
##	292	0.478948
##	293	0.536541
##	294	0.304137
##	295	0.570203
##	296	0.476505
##	297	0.567835
##	298	1.578620
##	299	1.811750
##	300	0.262659
##	301	1.642580
##	302	0.231224

##	303	0.617923
##	304	0.459994
##	305	1.162530
##	306	0.246630
##	307	0.928986
##	308	0.173964
##	309	0.628026
##	310	1.216230
##	311	0.425197
##	312	0.463960
##	313	0.224424
##	314	1.035610
##	315	1.066760
##	316	0.515389
##	317	0.610694
##	318	0.607501
##	319	1.341610
##	320	0.730035
##	321	0.480257
##	322	0.704611
##	323	0.838304
##	324	0.589090
##	325	0.608878
##	326	1.161390
##	327	1.076120
##	328	1.890910
##	329	1.688400
##	330	0.957288
##	331	0.712454
##	332	1.417350
##	333	0.407036
##	334	1.127640
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3036 0.190267
3037 0.991152
3038 1.237030
3039 0.576802
3040 1.171750
3041 0.840427
3042 0.641978
3043 1.078570
3044 0.383253
3045 1.870120
3046 0.486437
3047 0.554872
3048 0.942434
3049 0.689841
3050 0.904774
3051 1.024180
3052 0.931662
3053 0.155489
3054 0.253903
3055 0.101096
3056 0.719298
3057 0.579369
3058 0.981890
3059 1.240560
3060 1.308400
3061 0.350673
3062 1.031700
3063 0.249433
3064 0.520692
3065 0.740986
3066 0.794191
3067 1.749090

3068 1.470130
3069 0.387207
3070 0.405359
3071 0.385918
3072 0.480489
3073 0.122378
3074 1.434240
3075 1.539950
3076 0.507936
3077 1.446510
3078 0.712941
3079 0.281417
3080 1.035260
3081 0.576785
3082 1.549240
3083 1.586020
3084 0.448499
3085 0.634181
3086 1.619760
3087 0.583986
3088 0.783195
3089 0.483701
3090 0.911876
3091 0.679072
3092 1.400740
3093 1.495380
3094 0.306378
3095 0.350364
3096 0.253518
3097 0.639478
3098 1.109430
3099 0.561936
3100 0.957598
3101 1.011400
3102 1.554740
3103 0.864888
3104 0.254019
3105 0.949185
3106 1.185910
3107 0.970372
3108 0.611364
3109 0.950124
3110 1.229820
3111 1.009790
3112 1.273040
3113 0.619242
3114 0.682612
3115 0.319669
3116 1.245210
3117 0.976836
3118 0.287320
3119 0.903033
3120 0.192483
3121 0.793527
3122 1.088690
3123 0.434532
3124 1.941480
3125 0.474055
3126 0.908311
3127 1.448650
3128 1.325360
3129 0.732532
3130 0.773396
3131 0.789235
3132 1.376490
3133 1.501420
3134 0.632234
3135 1.424550
3136 0.959199
3137 1.564400
3138 0.884012
3139 1.226360
3140 0.305343
3141 0.967633
3142 0.284064
3143 1.161900
3144 1.653550
3145 0.379750
3146 0.705056

3147 0.660711
3148 1.108570
3149 1.085600
3150 1.115730
3151 0.306942
3152 0.986848
3153 0.356968
3154 0.518768
3155 0.394511
3156 0.573692
3157 0.962624
3158 0.123961
3159 0.809140
3160 0.801954
3161 1.867770
3162 0.451311
3163 0.923507
3164 0.261753
3165 0.343688
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3167 0.842965
3168 1.480660
3169 0.665883
3170 0.727653
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3173 0.505207
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3183 1.648280
3184 0.692901
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3187 1.059290
3188 0.611447
3189 0.327928
3190 0.966332
3191 0.620840
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3193 0.547640
3194 0.482994
3195 1.957170
3196 1.034170
3197 0.605001
3198 1.243700
3199 0.306300
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3201 1.128710
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3204 1.156840
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3206 0.921414
3207 1.492180
3208 1.151410
3209 0.802729
3210 0.743294
3211 0.775883
3212 0.847783
3213 0.481525
3214 1.115540
3215 0.819552
3216 1.231270
3217 0.389099
3218 0.425687
3219 0.464241
3220 0.634468
3221 0.386166
3222 0.852753
3223 0.985563
3224 0.623919
3225 1.089850

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3227 1.518670
3228 0.982573
3229 1.087180
3230 1.578630
3231 0.519213
3232 0.572368
3233 0.981690
3234 0.367352
3235 1.154830
3236 0.380509
3237 0.544455
3238 1.213070
3239 0.710431
3240 0.324084
3241 0.406635
3242 0.596235
3243 0.761703
3244 0.787018
3245 0.130701
3246 1.529910
3247 0.795025
3248 0.579171
3249 0.848215
3250 1.192410
3251 1.334740
3252 1.373870
3253 0.706717
3254 0.487922
3255 0.920781
3256 0.645976
3257 0.834584
3258 0.345704
3259 1.142110
3260 1.113190
3261 1.692570
3262 1.425150
3263 1.210270
3264 1.536750
3265 0.630116
3266 0.661058
3267 0.587137
3268 0.383997
3269 0.194090
3270 1.311450
3271 0.631769
3272 0.375009
3273 0.335484
3274 0.845157
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3276 0.405720
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3278 0.888577
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3280 1.234150
3281 0.708737
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3283 1.411310
3284 0.378798
3285 0.206158
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3288 0.568578
3289 0.745976
3290 0.620596
3291 0.373530
3292 0.388161
3293 0.730188
3294 0.435887
3295 0.304556
3296 1.187280
3297 1.090590
3298 0.558855
3299 0.166516
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3301 0.445455
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3303 1.068110
3304 0.739338

3305 0.430713
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3307 0.279813
3308 0.681355
3309 1.217570
3310 0.586642
3311 0.765889
3312 1.259460
3313 1.718320
3314 0.607773
3315 1.291200
3316 0.591852
3317 0.967259
3318 0.246898
3319 0.428177
3320 1.296830
3321 1.091990
3322 1.123450
3323 0.436938
3324 0.778772
3325 0.828444
3326 0.877961
3327 0.129711
3328 0.388447
3329 0.487563
3330 0.246048
3331 0.682279
3332 0.671519
3333 0.071244
3334 1.755780
3335 0.757034
3336 0.801913
3337 0.800492
3338 1.017380
3339 1.791900
3340 0.390497
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3351 0.699418
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3353 1.583690
3354 0.428491
3355 0.501158
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3357 0.156207
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3361 0.751742
3362 0.372479
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3368 0.664041
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3370 0.207976
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3372 0.783710
3373 1.192900
3374 1.115070
3375 0.355111
3376 0.496549
3377 1.131900
3378 0.811292
3379 1.583300
3380 1.343710
3381 0.812316
3382 0.427439
3383 0.319134

3384 0.791308
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3387 1.173930
3388 0.587435
3389 1.026160
3390 1.173580
3391 1.949520
3392 1.671730
3393 0.422723
3394 1.107480
3395 0.560692
3396 0.369294
3397 0.658170
3398 0.493003
3399 0.711897
3400 0.411973
3401 1.245660
3402 1.401340
3403 0.402247
3404 0.639877
3405 0.303783
3406 0.326821
3407 0.805413
3408 0.384365
3409 1.278570
3410 1.080730
3411 0.352252
3412 0.414468
3413 0.988940
3414 0.972248
3415 0.792704
3416 0.414502
3417 0.731350
3418 0.476762
3419 1.551150
3420 0.924313
3421 0.166377
3422 0.836555
3423 1.319180
3424 1.179960
3425 1.713530
3426 1.951410
3427 0.788413
3428 0.722028
3429 0.780974
3430 0.436308
3431 0.330500
3432 0.409328
3433 1.253990
3434 0.540012
3435 0.829820
3436 0.419559
3437 0.632701
3438 0.828232
3439 0.838853
3440 0.587076
3441 0.400794
3442 1.782280
3443 1.074000
3444 1.660580
3445 0.183433
3446 0.560975
3447 0.387340
3448 0.567893
3449 1.022630
3450 1.058500
3451 0.835798
3452 1.220080
3453 0.707049
3454 1.086540
3455 0.508899
3456 1.182010
3457 0.186958
3458 1.107320
3459 0.634342
3460 0.226186
3461 1.089660
3462 0.656069

3463 0.546769
3464 1.423800
3465 0.454385
3466 0.647287
3467 1.136690
3468 0.420525
3469 0.841314
3470 1.169900
3471 0.398576
3472 0.455139
3473 0.375849
3474 0.351446
3475 0.661580
3476 0.659850
3477 0.568764
3478 0.683436
3479 0.249893
3480 1.042490
3481 0.940758
3482 0.776059
3483 1.924340
3484 1.351910
3485 0.812490
3486 1.461380
3487 1.015340
3488 0.550422
3489 0.748033
3490 1.837930
3491 0.379207
3492 0.099304
3493 0.431676
3494 0.449880
3495 1.159250
3496 1.060990
3497 0.414935
3498 0.410800
3499 0.871459
3500 0.535491
3501 0.549084
3502 0.361537
3503 0.621432
3504 0.761113
3505 0.251027
3506 1.654930
3507 1.697360
3508 0.698320
3509 1.198670
3510 0.407887
3511 0.306785
3512 0.413497
3513 0.515911
3514 1.415610
3515 0.652534
3516 1.061300
3517 0.634123
3518 0.225647
3519 0.782743
3520 0.627144
3521 0.463141
3522 0.247512
3523 0.918242
3524 0.691403
3525 0.433926
3526 1.437730
3527 1.115710
3528 0.695917
3529 0.897010
3530 0.130250
3531 0.604007
3532 1.212630
3533 0.557026
3534 1.303040
3535 0.167485
3536 1.190120
3537 0.812731
3538 1.071990
3539 1.224500
3540 0.431148
3541 0.778143


```
## 3542 1.495860
## 3543 1.315130
## 3544 0.439371
## 3545 1.003920
## 3546 1.225390
## 3547 1.124760
## 3548 1.209490
## 3549 0.563718
## 3550 0.775939
## 3551 0.996019
## 3552 0.842896
## 3553 0.773781
## 3554 0.515378
## 3555 0.372457
## 3556 1.327240
## 3557 1.090320
## 3558 0.528929
## 3559 0.805433
## 3560 0.450417
## 3561 0.669310
## 3562 0.315142
## 3563 0.744409
## 3564 0.750115
## 3565 0.644434
## 3566 1.253550
## 3567 0.431480
## 3568 1.543780
## 3569 0.828357
## 3570 0.169492
## 3571 0.574670
## 3572 1.324360
## 3573 1.684530
## 3574 1.149260
## 3575 1.317320
## 3576 0.562638
## 3577 1.211860
## 3578 1.472000
## 3579 0.638107
## 3580 1.026220
## 3581 1.123900
## 3582 1.090780
## 3583 1.955540
## 3584 0.716952
## 3585 0.215375
## 3586 0.264562
## 3587 1.002130
## 3588 1.040450
## 3589 0.924104
## 3590 0.703326
## 3591 1.119340
## 3592 0.601981
## 3593 0.916685
## 3594 0.578253
## 3595 0.877260
## 3596 1.495850
## 3597 0.661393
## 3598 0.927781
## 3599 0.562196
## 3600 1.500550
## 3601 1.118320
## 3602 0.943774
## 3603 1.074030
## 3604 1.270970
## 3605 0.426381
## 3606 1.779200
## 3607 0.354399
```

The data we are working with have no factor variables, so I'm going to create one. (Uncomment the lines below, then run them. To uncomment all lines at once, try highlighting all of them, then under the `Code` pull-down menu, click on `Comment/Uncomment Lines ...` or utilize the displayed keyboard shortcut.)

```
type = rep("FAINT",nrow(pred.new))
w = which(pred.new$i<25)
type[w] = "BRIGHT"
type = factor(type)
unique(type)
```

```
## [1] BRIGHT FAINT
## Levels: BRIGHT FAINT
```

```
pred.new = cbind(type,pred.new)
```

So I defined my factor variable using character strings, and then coerced the vector of strings into a factor variable with two levels. Note that by default, the levels order themselves into alphabetical order. You can override that default behavior if there is actually a natural ordering to your factor variables. See the documentation for `factor()` to see how to do that.

Question 9

Use `group_by()` and `summarize()` to determine the numbers of BRIGHT and FAINT galaxies. (However, look up the `tally()` function for future reference.)

```
pred.new %>% group_by(.,type) %>% summarize(.,Number=n())
```

```
## # A tibble: 2 × 2
##   type    Number
##   <fct>   <int>
## 1 BRIGHT    1295
## 2 FAINT     2312
```

Question 10

Repeat Q9, but show the median value of the `u` magnitude instead of the numbers in each factor group.

```
pred.new %>% group_by(.,) %>% summarize(.,Median=median(u))
```

```
## # A tibble: 1 × 1
##   Median
##   <dbl>
## 1   27.2
```

Time for yet another digression.

Magnitudes of galaxies at particular wavelengths are heavily influenced by two factors: physics (what is going on with the gas, dust, and stars within the galaxy itself), and distance (the further away a galaxy is, the less bright it tends to be, so the magnitude generally goes up). To attempt to mitigate (somewhat, not necessarily completely) the effect of distance, astronomers often use *colors*, which are differences in magnitude for two adjacent filters.

Question 11

Use `mutate()` to define two new columns for `pred.new`: `gr`, which would be the `g` magnitude minus the `r` magnitude, and `ri`, for `r` and `i`. Save your result.

```
pred.new.column <- pred.new %>% mutate(.,gr = g - r, ri = r - i)
```

```
pred.new.column
```

```
##      type      u      g      r      i      z      y      gr      ri
## 1 BRIGHT 23.5907 21.6827 20.0759 19.4611 19.0885 18.8831 1.6068 0.6148
## 2 FAINT 27.1252 26.2652 25.5893 25.0175 24.6461 24.0259 0.6759 0.5718
## 3 FAINT 27.4013 26.7235 26.6074 26.5520 25.7460 25.4095 0.1161 0.0554
## 4 FAINT 27.9354 27.0586 26.3402 25.6980 25.0166 24.2701 0.7184 0.6422
## 5 FAINT 27.7733 27.4076 26.0681 25.3545 25.0698 24.9984 1.3395 0.7136
## 6 FAINT 27.1742 26.9353 26.2515 26.2313 26.0436 25.3952 0.6838 0.0202
## 7 BRIGHT 25.3228 24.9353 24.5632 24.1697 23.5369 23.2099 0.3721 0.3935
## 8 FAINT 27.4160 27.5820 26.8848 26.1395 25.3435 25.8520 0.6972 0.7453
## 9 BRIGHT 27.2069 27.4311 25.5344 24.4186 23.5194 23.0643 1.8967 1.1158
## 10 FAINT 28.8780 27.5836 26.3113 26.1606 25.8048 26.1740 1.2723 0.1507
## 11 FAINT 28.3921 27.9233 26.8904 26.3605 26.4174 25.7329 1.0329 0.5299
## 12 BRIGHT 26.6773 26.0998 25.2068 24.9732 24.8651 24.6902 0.8930 0.2336
## 13 FAINT 27.2278 26.3539 25.9111 25.2846 25.0043 24.1177 0.4428 0.6265
## 14 FAINT 26.9538 27.1541 27.3460 26.5548 25.9525 25.3050 -0.1919 0.7912
## 15 FAINT 26.8456 27.0187 26.1422 25.4837 25.5677 25.3532 0.8765 0.6585
## 16 FAINT 28.0052 27.7457 26.4383 26.0616 25.7784 26.1672 1.3074 0.3767
## 17 BRIGHT 25.2085 25.1535 24.9196 24.8335 24.6124 24.3069 0.2339 0.0861
## 18 FAINT 29.2546 30.8355 27.7408 26.8231 25.9516 26.2909 3.0947 0.9177
## 19 FAINT 26.1497 26.2192 26.0955 25.6397 25.4075 25.0130 0.1237 0.4558
```

##	20	FAINT	26.5509	26.4818	25.5536	25.2270	25.2445	24.9525	0.9282	0.3266
##	21	BRIGHT	24.5290	23.9741	23.0932	22.6841	22.4904	22.2640	0.8809	0.4091
##	22	BRIGHT	28.2080	28.0037	26.2904	24.9391	24.4180	24.1830	1.7133	1.3513
##	23	FAINT	28.9982	28.8441	27.2527	26.5719	25.5759	25.8044	1.5914	0.6808
##	24	BRIGHT	24.8240	24.8536	24.6835	24.5371	24.6220	24.6840	0.1701	0.1464
##	25	FAINT	27.0908	27.5066	27.4050	26.4532	26.6131	26.2317	0.1016	0.9518
##	26	BRIGHT	26.6189	25.2088	23.8330	23.3868	23.1178	23.0027	1.3758	0.4462
##	27	BRIGHT	26.4905	26.0486	25.3823	24.7199	24.4525	23.6197	0.6663	0.6624
##	28	FAINT	28.3465	27.4630	26.5717	25.7214	24.7746	23.9812	0.8913	0.8503
##	29	FAINT	28.4209	28.2880	27.4080	26.6403	26.5285	26.5848	0.8800	0.7677
##	30	FAINT	31.5726	27.3192	27.1310	26.5103	26.4225	25.6176	0.1882	0.6207
##	31	FAINT	28.1489	27.8916	27.5010	26.6906	25.6706	26.5114	0.3906	0.8104
##	32	FAINT	29.1256	27.9763	27.0292	26.7976	26.9672	26.2662	0.9471	0.2316
##	33	FAINT	27.6598	26.3224	25.8027	25.7159	25.4798	25.2686	0.5197	0.0868
##	34	BRIGHT	27.1932	26.1313	25.5652	24.8539	24.2522	24.1523	0.5661	0.7113
##	35	FAINT	26.9505	26.5753	26.0784	25.4054	24.8646	24.5873	0.4969	0.6730
##	36	FAINT	26.6317	26.6204	25.8408	25.3731	25.2625	25.2317	0.7796	0.4677
##	37	BRIGHT	23.7494	22.7033	21.6606	21.1618	20.8411	20.5920	1.0427	0.4988
##	38	BRIGHT	24.8429	23.5477	22.6904	22.2319	22.0422	21.8155	0.8573	0.4585
##	39	FAINT	27.5204	27.7285	26.9929	26.6925	26.6048	26.3440	0.7356	0.3004
##	40	FAINT	27.5168	29.4731	27.4634	26.2148	25.6620	25.4156	2.0097	1.2486
##	41	FAINT	26.2940	26.0667	25.7064	25.3692	24.7137	24.4754	0.3603	0.3372
##	42	BRIGHT	28.3053	26.8101	25.7267	24.9689	24.8305	24.8043	1.0834	0.7578
##	43	FAINT	27.7512	26.9047	26.5232	25.9890	25.4380	26.1799	0.3815	0.5342
##	44	BRIGHT	26.1591	24.9571	23.4138	22.3028	21.9225	21.5656	1.5433	1.1110
##	45	BRIGHT	27.0744	26.0737	25.2942	24.8377	24.7759	24.6305	0.7795	0.4565
##	46	BRIGHT	25.7862	25.1911	24.6239	24.4655	24.4099	24.3539	0.5672	0.1584
##	47	FAINT	26.3847	26.0648	25.8074	25.2263	24.7896	23.8893	0.2574	0.5811
##	48	FAINT	27.8197	28.0456	27.0652	26.5326	25.9764	28.1821	0.9804	0.5326
##	49	FAINT	25.6431	25.6287	25.4379	25.0704	24.7970	24.5576	0.1908	0.3675
##	50	BRIGHT	27.2264	26.6165	25.6304	24.9386	24.0875	23.6585	0.9861	0.6918
##	51	FAINT	28.8194	28.2238	27.6085	26.0116	25.2318	24.4592	0.6153	1.5969
##	52	BRIGHT	27.2091	25.9012	24.3842	23.1960	22.7635	22.4243	1.5170	1.1882
##	53	BRIGHT	26.5874	25.9783	25.5048	24.9143	24.5030	23.9024	0.4735	0.5905
##	54	BRIGHT	26.5267	26.2025	24.9746	24.4122	24.2170	23.9205	1.2279	0.5624
##	55	BRIGHT	25.7664	25.0661	23.9577	23.2849	23.1373	22.8929	1.1084	0.6728
##	56	FAINT	28.1760	27.3996	27.4028	26.8932	27.2581	25.7115	-0.0032	0.5096
##	57	FAINT	26.3381	26.1001	25.6144	25.5268	25.3847	25.5478	0.4857	0.0876
##	58	BRIGHT	26.9933	26.1939	25.5789	24.8870	24.2727	24.0573	0.6150	0.6919
##	59	FAINT	27.2710	26.0094	25.5536	25.0561	24.6234	24.4312	0.4558	0.4975
##	60	BRIGHT	28.1292	27.0356	24.9791	23.7826	22.8522	22.0419	2.0565	1.1965
##	61	FAINT	29.1440	28.2120	27.0214	26.8139	26.6610	26.7252	1.1906	0.2075
##	62	FAINT	26.6734	26.9618	26.7649	26.5744	26.6068	25.5605	0.1969	0.1905
##	63	FAINT	26.7420	26.4678	26.1872	25.9182	25.4729	24.9277	0.2806	0.2690
##	64	FAINT	27.5620	27.4842	26.3191	25.7195	25.0682	24.5815	1.1651	0.5996
##	65	BRIGHT	25.5645	24.6126	23.9909	23.7564	23.6159	23.5673	0.6217	0.2345
##	66	FAINT	26.2779	26.4544	25.8065	25.3685	25.4078	24.9253	0.6479	0.4380
##	67	FAINT	28.2189	26.6906	26.3069	25.6792	25.4269	26.4898	0.3837	0.6277
##	68	BRIGHT	25.5887	25.1474	24.6842	24.4974	24.3467	24.3638	0.4632	0.1868
##	69	FAINT	28.0681	27.6013	26.9489	26.4647	25.6820	25.0125	0.6524	0.4842
##	70	BRIGHT	25.2554	24.8657	24.0349	23.7949	23.6688	23.5896	0.8308	0.2400
##	71	BRIGHT	26.1032	25.3681	23.4371	22.3180	21.4136	20.9592	1.9310	1.1191
##	72	BRIGHT	26.2473	25.8953	25.1163	24.5955	24.3804	24.4361	0.7790	0.5208
##	73	FAINT	28.3330	27.8871	27.1012	26.9542	26.1834	26.2996	0.7859	0.1470
##	74	FAINT	29.9067	29.1769	27.9319	26.9695	26.9588	29.6223	1.2450	0.9624
##	75	BRIGHT	25.2596	24.5702	23.4889	22.6959	21.9383	21.5542	1.0813	0.7930
##	76	FAINT	27.8407	27.5703	26.9581	26.2224	25.9186	25.8953	0.6122	0.7357
##	77	FAINT	27.0065	26.5739	25.7851	25.1745	25.0848	24.9713	0.7888	0.6106
##	78	FAINT	27.7584	27.9356	26.8045	26.2979	26.6657	25.8988	1.1311	0.5066
##	79	FAINT	26.8458	26.3254	26.2689	25.7780	25.2112	24.7541	0.0565	0.4909
##	80	BRIGHT	25.5016	25.3407	24.9019	24.2711	24.0173	23.9559	0.4388	0.6308
##	81	FAINT	26.3515	26.1852	25.7143	25.6401	25.4113	25.2629	0.4709	0.0742
##	82	BRIGHT	26.3581	26.0194	25.3646	24.6924	24.4506	24.3314	0.6548	0.6722
##	83	BRIGHT	26.7498	26.1775	25.0547	24.5991	24.2826	24.1428	1.1228	0.4556
##	84	FAINT	27.1613	28.3186	28.2976	26.8731	27.6306	26.7550	0.0210	1.4245
##	85	FAINT	27.3878	28.2304	27.2710	26.9600	26.2623	27.4151	0.9594	0.3110
##	86	BRIGHT	26.7702	25.9774	25.1721	24.1824	23.8712	23.6064	0.8053	0.9897
##	87	FAINT	29.5105	28.6623	27.3934	25.4760	24.5108	24.0294	1.2689	1.9174
##	88	FAINT	28.7677	28.1083	27.3822	26.7579	26.8036	26.4309	0.7261	0.6243
##	89	FAINT	27.3849	26.7923	25.5132	25.1705	24.9947	24.4100	1.2791	0.3427
##	90	BRIGHT	24.4493	23.9789	23.4495	22.7737	22.5904	22.4742	0.5294	0.6758
##	91	FAINT	27.0086	26.1973	25.8617	25.6216	25.4212	25.4239	0.3356	0.2401
##	92	FAINT	27.0037	26.8867	26.4836	25.9131	25.1681	24.7888	0.4031	0.5705
##	93	FAINT	27.7149	27.4305	26.0949	25.2065	24.9376	24.4327	1.3356	0.8884
##	94	FAINT	28.3965	28.5976	27.5629	26.9222	26.6820	26.8252	1.0347	0.6407
##	95	BRIGHT	30.1858	28.1109	26.4871	24.7450	24.0867	22.9911	1.6238	1.7421
##	96	FAINT	29.1098	30.2545	28.4310	26.9262	26.7440	31.5682	1.8235	1.5048
##	97	BRIGHT	25.4800	25.0120	23.6072	22.5956	21.7975	21.4625	1.4048	1.0116
##	98	BRIGHT	26.0449	25.5407	24.9566	24.8194	24.6210	24.8078	0.5841	0.1372

##	99	FAINT	28.9737	26.7347	26.3124	25.8207	25.0124	24.8154	0.4223	0.4917
##	100	FAINT	27.8048	27.7558	26.6794	25.9711	25.0937	24.6453	1.0764	0.7083
##	101	BRIGHT	26.9322	26.3646	25.6975	24.6761	24.0238	23.2902	0.6671	1.0214
##	102	BRIGHT	24.3764	22.7359	21.4422	20.9512	20.6848	20.4670	1.2937	0.4910
##	103	FAINT	27.8039	27.5786	26.7804	26.0302	25.9373	25.6887	0.7982	0.7502
##	104	FAINT	27.4302	27.4222	26.4625	25.9584	25.8212	25.7474	0.9597	0.5041
##	105	BRIGHT	25.3025	24.3001	23.6234	23.2673	23.1538	22.9817	0.6767	0.3561
##	106	FAINT	26.3901	26.4997	26.7621	26.8865	26.4839	26.6713	-0.2624	-0.1244
##	107	FAINT	27.9830	27.4822	26.9654	26.0706	25.3717	25.3478	0.5168	0.8948
##	108	FAINT	28.0418	27.9294	27.1045	26.4524	26.0929	25.2800	0.8249	0.6521
##	109	BRIGHT	26.2505	25.4146	24.5361	23.6009	23.0824	22.9120	0.8785	0.9352
##	110	FAINT	28.4583	26.9024	26.2961	25.8636	25.5368	25.5522	0.6063	0.4325
##	111	FAINT	27.4011	27.5427	26.6247	26.0721	26.3974	27.0641	0.9180	0.5526
##	112	BRIGHT	26.9429	26.0693	23.6378	22.5234	21.5045	20.9203	2.4315	1.1144
##	113	FAINT	31.0711	29.3700	28.3446	26.9023	27.0790	26.9673	1.0254	1.4423
##	114	FAINT	28.1587	27.4872	26.6918	25.8740	25.5831	25.0922	0.7954	0.8178
##	115	BRIGHT	27.9147	26.7582	25.5385	24.3470	23.5299	22.7669	1.2197	1.1915
##	116	FAINT	27.1589	27.1902	26.8306	26.2868	26.5366	25.6409	0.3596	0.5438
##	117	FAINT	28.1642	27.9889	26.3037	25.9457	25.7511	25.1839	1.6852	0.3580
##	118	FAINT	28.1295	27.1672	26.7560	26.6055	26.2648	25.8942	0.4112	0.1505
##	119	FAINT	27.7412	27.2165	26.7459	26.0424	25.5664	25.1168	0.4706	0.7035
##	120	FAINT	28.1492	27.0302	26.3259	26.0324	25.7576	25.4970	0.7043	0.2935
##	121	BRIGHT	26.7010	26.3689	25.5601	24.7597	24.3197	24.1195	0.8088	0.8004
##	122	FAINT	26.8484	27.2735	26.7470	26.2125	26.1539	25.5416	0.5265	0.5345
##	123	FAINT	28.7864	27.6317	26.7267	26.2818	26.2873	25.8843	0.9050	0.4449
##	124	FAINT	27.8443	26.7471	26.3115	26.3039	26.1726	25.7483	0.4356	0.0076
##	125	BRIGHT	23.9544	22.9458	22.1460	21.9357	21.6788	21.7137	0.7998	0.2103
##	126	BRIGHT	25.6743	24.4970	23.1968	22.9228	22.7628	22.6715	1.3002	0.2740
##	127	BRIGHT	25.4266	24.6804	24.0356	23.3232	23.1673	23.0210	0.6448	0.7124
##	128	BRIGHT	25.7028	25.2798	24.6677	23.8431	23.5382	23.4780	0.6121	0.8246
##	129	FAINT	30.2659	28.8755	27.8752	26.6219	26.2718	28.0630	1.0003	1.2533
##	130	BRIGHT	26.2713	26.0686	25.1629	24.4653	23.7420	23.4440	0.9057	0.6976
##	131	FAINT	27.7527	27.3598	26.8755	26.6431	26.3616	26.0163	0.4843	0.2324
##	132	BRIGHT	23.7350	22.9648	22.6422	22.4577	22.3946	22.2956	0.3226	0.1845
##	133	FAINT	26.5354	26.8726	26.4999	26.0153	25.6725	25.2609	0.3727	0.4846
##	134	FAINT	27.5456	26.3197	25.4028	25.1169	24.8863	24.6371	0.9169	0.2859
##	135	FAINT	27.2383	27.4337	26.2674	25.5955	25.4162	25.2546	1.1663	0.6719
##	136	BRIGHT	24.9897	24.8440	24.1627	23.5813	22.8814	22.6009	0.6813	0.5814
##	137	FAINT	27.3800	27.9628	27.2757	26.9270	27.0203	25.6807	0.6871	0.3487
##	138	FAINT	27.9541	26.9499	26.9739	26.6286	26.1495	25.8430	-0.0240	0.3453
##	139	BRIGHT	26.1539	25.8538	25.0840	24.4084	24.1900	23.9655	0.7698	0.6756
##	140	FAINT	28.9731	27.8204	26.6721	26.3613	26.1606	26.3381	1.1483	0.3108
##	141	FAINT	29.9981	28.4193	27.0202	26.0424	25.9001	25.1539	1.3991	0.9778
##	142	BRIGHT	27.8540	26.0984	24.6875	24.1125	23.8925	23.8547	1.4109	0.5750
##	143	BRIGHT	24.7922	23.8921	22.6739	21.6964	21.3536	21.0321	1.2182	0.9775
##	144	FAINT	28.4482	27.9130	27.2787	26.5101	25.9948	25.2235	0.6343	0.7686
##	145	FAINT	28.0492	27.7464	27.0177	26.3825	26.1431	26.4445	0.7287	0.6352
##	146	FAINT	31.2265	27.7647	26.5378	25.8716	24.7222	24.1823	1.2269	0.6662
##	147	FAINT	27.8728	27.9822	27.2647	26.7756	26.0814	25.7971	0.7175	0.4891
##	148	BRIGHT	26.3357	26.0166	25.2859	24.6200	24.3970	24.4394	0.7307	0.6659
##	149	FAINT	27.9109	28.2089	27.3425	26.9665	27.7448	25.9759	0.8664	0.3760
##	150	FAINT	26.8943	27.8515	27.0970	26.1868	25.7756	25.9312	0.7545	0.9102
##	151	BRIGHT	27.3914	25.8844	25.2107	24.3047	23.6853	22.8502	0.6737	0.9060
##	152	BRIGHT	28.3369	27.2243	25.4916	24.5312	23.5198	23.0325	1.7327	0.9604
##	153	FAINT	28.4870	27.8588	27.1438	26.9717	26.3082	25.6752	0.7150	0.1721
##	154	FAINT	27.7209	27.7136	27.0732	26.4383	26.6934	27.4961	0.6404	0.6349
##	155	FAINT	30.3440	27.8508	27.3069	26.7490	26.0978	26.5945	0.5439	0.5579
##	156	BRIGHT	25.5889	25.4814	25.1112	24.5348	24.0782	23.8003	0.3702	0.5764
##	157	BRIGHT	24.6205	23.8978	22.9914	22.7124	22.5107	22.4058	0.9064	0.2790
##	158	BRIGHT	25.2231	24.6784	23.7423	23.0379	22.7700	22.5108	0.9361	0.7044
##	159	BRIGHT	26.2904	25.6074	24.5648	23.6138	23.3474	23.1130	1.0426	0.9510
##	160	BRIGHT	26.9743	25.6516	24.8453	24.6112	24.4283	24.3514	0.8063	0.2341
##	161	FAINT	26.6690	27.1101	26.6231	26.2105	26.5872	25.5480	0.4870	0.4126
##	162	FAINT	27.2795	27.4140	27.0228	26.7156	26.5943	26.3928	0.3912	0.3072
##	163	FAINT	26.8811	26.4115	25.9688	25.7964	25.7123	25.4065	0.4427	0.1724
##	164	BRIGHT	25.1236	24.7740	24.6409	24.0948	23.6550	22.9186	0.1331	0.5461
##	165	BRIGHT	25.8806	25.5724	25.0070	24.3168	23.9644	23.7055	0.5654	0.6902
##	166	FAINT	27.1791	28.0240	27.3065	26.9033	26.8668	26.8150	0.7175	0.4032
##	167	BRIGHT	27.4578	27.0182	25.2897	24.1771	23.3858	23.0770	1.7285	1.1126
##	168	FAINT	28.5485	28.2122	27.3295	26.9860	26.4146	25.8162	0.8827	0.3435
##	169	FAINT	29.2743	27.3675	27.1547	26.5708	26.4545	26.1016	0.2128	0.5839
##	170	BRIGHT	25.9150	24.8299	24.2145	23.9237	23.8521	23.6882	0.6154	0.2908
##	171	FAINT	26.1898	26.1435	26.0303	26.0957	26.0745	26.4451	0.1132	-0.0654
##	172	BRIGHT	26.4759	25.7340	24.9832	24.1781	23.8794	23.8258	0.7508	0.8051
##	173	FAINT	29.6979	29.1416	27.4330	26.8687	26.3781	25.1857	1.7086	0.5643
##	174	FAINT	27.4047	26.7019	25.9933	25.4014	25.2697	24.9195	0.7086	0.5919
##	175	BRIGHT	27.3043	25.4635	24.5850	24.3198	23.9955	24.1169	0.8785	0.2652
##	176	FAINT	27.9925	28.5425	27.4970	26.5000	25.6171	25.1065	1.0455	0.9970
##	177	FAINT	28.2699	27.9365	27.3141	26.5184	26.0188	25.8093	0.6224	0.7957

##	178	FAINT	27.3854	27.0924	26.6447	25.6993	25.2596	25.1425	0.4477	0.9454
##	179	FAINT	26.8994	27.3040	26.6729	26.3870	26.3461	25.8577	0.6311	0.2859
##	180	BRIGHT	25.1525	24.4345	23.7243	23.5500	23.3449	23.3436	0.7102	0.1743
##	181	BRIGHT	26.5090	25.0922	24.1846	23.8581	23.6128	23.4565	0.9076	0.3265
##	182	FAINT	28.9295	29.4774	27.9687	26.4322	25.5572	24.6287	1.5087	1.5365
##	183	FAINT	26.5055	26.6887	26.7953	26.5512	26.4997	26.3223	-0.1066	0.2441
##	184	FAINT	28.5546	27.8309	26.3221	25.3246	24.4609	23.8040	1.5088	0.9975
##	185	FAINT	28.5829	29.6314	27.0514	26.4505	25.9460	25.5217	2.5800	0.6009
##	186	FAINT	29.9024	29.6355	28.2893	26.8018	26.0478	25.2392	1.3462	1.4875
##	187	FAINT	29.2746	27.6786	26.7385	25.9063	25.5569	25.3625	0.9401	0.8322
##	188	FAINT	29.7040	27.5801	27.0003	26.4159	26.0531	25.8030	0.5798	0.5844
##	189	FAINT	27.3490	26.7342	26.3188	26.1716	25.9898	25.7575	0.4154	0.1472
##	190	FAINT	29.3489	27.1732	26.6207	25.6039	24.9995	24.0020	0.5525	1.0168
##	191	BRIGHT	26.3758	26.0851	24.9389	24.3107	24.1835	24.0248	1.1462	0.6282
##	192	FAINT	27.6691	27.6645	27.9776	26.8253	26.7963	26.6239	-0.3131	1.1523
##	193	FAINT	27.4113	27.2869	26.9432	26.2856	26.5674	26.3558	0.3437	0.6576
##	194	BRIGHT	25.3609	24.9915	24.7860	24.3007	23.7713	23.0884	0.2055	0.4853
##	195	FAINT	26.5259	26.4330	25.6487	25.1605	25.1626	24.9870	0.7843	0.4882
##	196	FAINT	27.4816	27.3624	26.7097	26.4239	26.2845	26.6014	0.6527	0.2858
##	197	BRIGHT	24.6115	24.3220	23.7486	23.3858	23.2784	23.1158	0.5734	0.3628
##	198	FAINT	29.2160	27.3207	26.0026	25.4335	25.1291	25.2439	1.3181	0.5691
##	199	FAINT	26.1998	26.7701	26.2982	25.4596	25.1919	24.8276	0.4719	0.8386
##	200	BRIGHT	25.0611	24.2325	23.0461	22.6794	22.5632	22.0676	1.1864	0.3667
##	201	FAINT	26.5231	26.6545	26.7881	26.5354	26.4665	26.7244	-0.1336	0.2527
##	202	FAINT	27.4804	26.9306	26.5425	26.3554	26.0311	26.0034	0.3881	0.1871
##	203	BRIGHT	27.5706	27.1727	25.2802	24.1328	23.2094	22.7795	1.8925	1.1474
##	204	BRIGHT	26.7203	26.2785	25.5208	24.8969	24.8000	24.5367	0.7577	0.6239
##	205	FAINT	27.3394	27.1136	26.5688	26.6547	25.9026	25.7241	0.5448	-0.0859
##	206	FAINT	27.1835	27.1312	26.4483	25.9404	25.2465	24.7676	0.6829	0.5079
##	207	FAINT	29.2901	27.4031	26.4799	25.3716	24.1894	23.4281	0.9232	1.1083
##	208	FAINT	26.7516	26.8355	26.4599	25.9113	25.5734	25.5324	0.3756	0.5486
##	209	FAINT	30.0203	28.5565	26.5653	25.9269	25.4033	25.3213	1.9912	0.6384
##	210	FAINT	31.8338	28.3780	27.4987	26.6002	26.2079	26.3430	0.8793	0.8985
##	211	BRIGHT	24.1920	23.2495	22.8330	22.5775	22.5543	22.4797	0.4165	0.2555
##	212	BRIGHT	25.4163	24.6864	23.8872	23.7146	23.4775	23.4722	0.7992	0.1726
##	213	BRIGHT	25.9189	24.7587	23.5415	22.6452	22.3150	22.0131	1.2172	0.8963
##	214	BRIGHT	24.6137	23.9098	22.9748	22.7258	22.5224	22.4076	0.9350	0.2490
##	215	FAINT	28.8215	27.9027	28.0318	26.9091	27.3873	26.5991	-0.1291	1.1227
##	216	BRIGHT	28.2767	27.0880	25.4964	24.6125	24.2038	23.7262	1.5916	0.8839
##	217	BRIGHT	29.4886	26.0339	24.4363	23.3704	22.9474	22.6162	1.5976	1.0659
##	218	FAINT	27.7852	27.3995	26.9649	26.0663	25.7275	25.3595	0.4346	0.8986
##	219	BRIGHT	25.1686	24.4366	23.7160	22.8933	22.5949	22.5029	0.7206	0.8227
##	220	FAINT	27.7207	27.6168	27.2030	26.9507	27.6593	26.3545	0.4138	0.2523
##	221	FAINT	25.7857	25.8311	25.7036	25.4962	25.2241	25.0584	0.1275	0.2074
##	222	BRIGHT	24.5733	23.6259	23.0989	22.8068	22.8217	22.7626	0.5270	0.2921
##	223	FAINT	27.1773	27.2377	26.2175	25.4284	25.1440	24.8004	1.0202	0.7891
##	224	FAINT	30.4945	28.7568	27.7862	26.7975	26.5748	31.1654	0.9706	0.9887
##	225	BRIGHT	26.0950	25.7198	24.8857	24.6412	24.4460	24.4576	0.8341	0.2445
##	226	FAINT	26.9306	27.8026	27.3713	26.7824	26.4045	26.1327	0.4313	0.5889
##	227	FAINT	25.8317	25.9284	25.8888	25.9903	25.8364	26.1279	0.0396	-0.1015
##	228	BRIGHT	24.7065	23.8727	23.3566	23.0875	23.0608	22.9915	0.5161	0.2691
##	229	FAINT	28.9057	28.4634	27.4390	26.9665	27.0937	28.3587	1.0244	0.4725
##	230	FAINT	28.2352	28.7892	27.2325	26.7313	26.4119	25.7329	1.5567	0.5012
##	231	FAINT	30.0616	28.6757	27.5908	26.6463	25.9732	25.6289	1.0849	0.9445
##	232	FAINT	27.0827	27.1259	26.6606	25.9520	25.2261	25.0813	0.4653	0.7086
##	233	FAINT	27.5345	27.8980	27.1990	26.7940	26.7085	26.2121	0.6990	0.4050
##	234	BRIGHT	23.6374	23.6058	23.4835	23.5266	23.3802	23.5975	0.1223	-0.0431
##	235	FAINT	28.2907	28.1309	28.1115	26.5720	26.6339	24.7430	0.0194	1.5395
##	236	FAINT	29.0198	28.5486	27.6762	26.7724	26.8705	26.3936	0.8724	0.9038
##	237	FAINT	28.7076	27.8768	27.0204	25.9323	24.9549	24.2832	0.8564	1.0881
##	238	FAINT	27.1215	26.8389	26.0548	25.8286	25.4567	25.7342	0.7841	0.2262
##	239	BRIGHT	22.3166	21.2894	20.9855	20.7307	20.7679	20.6636	0.3039	0.2548
##	240	BRIGHT	25.7614	24.9523	23.9009	23.2561	23.0492	22.8666	1.0514	0.6448
##	241	FAINT	27.2999	26.9944	26.4685	26.3690	26.1835	25.8627	0.5259	0.0995
##	242	FAINT	27.9110	28.1863	27.1829	26.6275	25.8866	25.3501	1.0034	0.5554
##	243	BRIGHT	26.4190	26.0822	25.4824	24.6624	24.4234	23.8931	0.5998	0.8200
##	244	FAINT	27.2775	28.3120	27.2403	26.8655	27.5668	27.0860	1.0717	0.3748
##	245	BRIGHT	25.2727	25.0660	24.4699	23.6175	23.0784	22.8796	0.5961	0.8524
##	246	FAINT	29.1233	28.3727	27.2154	26.5866	26.1899	25.7558	1.1573	0.6288
##	247	BRIGHT	24.8072	24.0427	23.5370	23.2752	23.2248	23.1337	0.5057	0.2618
##	248	FAINT	26.8832	26.5329	25.9390	25.2791	24.6338	24.3605	0.5939	0.6599
##	249	FAINT	28.1037	27.1396	26.6674	26.6544	26.0169	26.2482	0.4722	0.0130
##	250	BRIGHT	27.7770	27.2678	25.5836	24.1244	23.2885	22.3944	1.6842	1.4592
##	251	FAINT	27.5462	27.1953	26.6801	26.5046	26.3454	26.7845	0.5152	0.1755
##	252	FAINT	27.6319	27.6448	27.1339	26.4573	26.1365	24.9105	0.5109	0.6766
##	253	FAINT	27.2613	27.5616	26.4575	25.5710	25.2111	25.2449	1.1041	0.8865
##	254	FAINT	26.7704	26.8603	25.9755	25.7477	25.5171	26.1309	0.8848	0.2278
##	255	BRIGHT	23.9710	23.5709	22.8093	22.0265	21.7688	21.5762	0.7616	0.7828
##	256	BRIGHT	25.1796	25.2382	24.9767	24.5991	24.4420	24.4974	0.2615	0.3776

##	257	BRIGHT	26.8010	25.7050	24.8199	24.7048	24.4768	24.5575	0.8851	0.1151
##	258	FAINT	29.4283	28.5292	27.9942	26.9834	26.7393	27.4991	0.5350	1.0108
##	259	BRIGHT	24.2883	23.7950	22.9175	22.6544	22.4912	22.4001	0.8775	0.2631
##	260	FAINT	26.3545	26.3690	25.8236	25.5020	25.5249	25.4959	0.5454	0.3216
##	261	BRIGHT	24.8075	24.0819	23.4243	23.2637	23.0450	23.0344	0.6576	0.1606
##	262	FAINT	26.4293	25.8556	25.3158	25.1653	25.3088	24.8675	0.5398	0.1505
##	263	FAINT	27.5794	27.4447	26.8744	26.4159	25.7007	25.1779	0.5703	0.4585
##	264	FAINT	26.1811	26.1644	26.0297	25.5455	25.2171	24.6337	0.1347	0.4842
##	265	FAINT	27.4860	27.4976	27.0352	26.1723	26.2596	26.1796	0.4624	0.8629
##	266	FAINT	27.2355	28.0731	26.5439	26.2420	25.9587	26.6581	1.5292	0.3019
##	267	FAINT	27.6446	27.1509	26.5123	25.9446	25.9659	25.7566	0.6386	0.5677
##	268	FAINT	27.8040	27.8649	27.3994	26.3391	26.3632	26.1668	0.4655	1.0603
##	269	FAINT	27.8760	28.4269	27.5830	26.9057	26.1273	26.0858	0.8439	0.6773
##	270	FAINT	27.1968	27.0074	26.3118	26.2657	26.0292	26.4381	0.6956	0.0461
##	271	BRIGHT	21.6873	20.4499	19.5755	19.1232	18.8656	18.6434	0.8744	0.4523
##	272	BRIGHT	26.9665	26.1637	25.4043	24.8479	24.2100	23.8191	0.7594	0.5564
##	273	BRIGHT	26.8048	25.8854	25.3757	24.6218	24.1977	23.4293	0.5097	0.7539
##	274	FAINT	29.2085	27.4839	27.2256	26.3085	25.9378	27.9218	0.2583	0.9171
##	275	BRIGHT	28.1552	25.9818	24.1900	22.9332	22.2884	21.9262	1.7918	1.2568
##	276	BRIGHT	27.3601	26.3564	25.5474	24.9197	24.7969	24.8793	0.8090	0.6277
##	277	BRIGHT	25.2395	24.6228	23.7385	22.9710	22.3451	22.1204	0.8843	0.7675
##	278	FAINT	28.8261	28.6991	27.2724	26.9349	25.9719	26.4202	1.4267	0.3375
##	279	FAINT	27.4381	27.0683	26.6647	26.3621	25.9861	29.5161	0.4036	0.3026
##	280	FAINT	29.1394	27.3283	26.3147	26.1152	25.3485	24.8797	1.0136	0.1995
##	281	BRIGHT	26.1619	25.0246	23.9160	23.1041	22.8819	22.6594	1.1086	0.8119
##	282	BRIGHT	27.0795	26.5640	25.6492	24.8543	24.2193	23.9436	0.9148	0.7949
##	283	BRIGHT	26.4757	26.0536	24.8386	23.8353	23.4547	23.1078	1.2150	1.0033
##	284	FAINT	28.2775	28.0559	27.6431	26.9405	27.3009	27.1922	0.4128	0.7026
##	285	BRIGHT	26.3620	25.4121	24.7912	24.2133	24.0862	23.9184	0.6209	0.5779
##	286	BRIGHT	25.5444	24.8224	23.0869	21.9483	21.1685	20.8509	1.7355	1.1386
##	287	FAINT	27.9280	27.5027	26.7065	25.8048	25.3964	24.9324	0.7962	0.9017
##	288	BRIGHT	25.6719	23.2983	21.5768	20.6211	20.1689	19.8174	1.7215	0.9557
##	289	BRIGHT	26.0619	25.3231	24.6838	23.7068	23.1723	22.3419	0.6393	0.9770
##	290	FAINT	28.1511	27.7563	26.8076	26.2364	25.8604	25.5708	0.9487	0.5712
##	291	FAINT	26.4886	25.8615	25.6854	25.3709	25.1218	24.4128	0.1761	0.3145
##	292	BRIGHT	27.0981	25.5626	24.1937	23.5414	23.2173	22.8866	1.3689	0.6523
##	293	FAINT	28.2892	27.0647	25.9409	25.5703	25.3897	24.8883	1.1238	0.3706
##	294	FAINT	30.5953	27.1761	26.2294	26.0583	25.6133	25.6942	0.9467	0.1711
##	295	FAINT	27.5246	26.8663	25.9165	25.4535	25.1709	25.6851	0.9498	0.4630
##	296	FAINT	27.1674	26.8636	25.8991	25.5645	25.4573	25.4461	0.9645	0.3346
##	297	FAINT	29.4042	26.9885	26.2571	25.9231	25.8393	25.3588	0.7314	0.3340
##	298	FAINT	28.7547	27.8734	27.2197	26.1786	25.5188	25.2576	0.6537	1.0411
##	299	FAINT	29.6318	28.4991	28.1289	26.9697	25.4754	24.9997	0.3702	1.1592
##	300	FAINT	25.0971	24.9977	24.9805	25.0839	24.9136	25.2994	0.0172	-0.1034
##	301	FAINT	27.2369	27.9851	27.4042	26.6975	26.5859	26.4729	0.5809	0.7067
##	302	BRIGHT	23.3320	22.4142	21.6669	21.3121	21.1440	21.0031	0.7473	0.3548
##	303	FAINT	27.7036	26.6694	25.8184	25.2886	25.1650	25.2189	0.8510	0.5298
##	304	BRIGHT	27.4932	25.2233	23.7021	23.1245	22.8128	22.5786	1.5212	0.5776
##	305	FAINT	26.3960	26.2331	25.9770	25.7317	25.1671	24.8280	0.2561	0.2453
##	306	BRIGHT	24.6924	24.5916	24.5401	24.5696	24.5907	24.8867	0.0515	-0.0295
##	307	BRIGHT	29.0881	27.2543	25.1092	24.0162	23.1388	22.7461	2.1451	1.0930
##	308	BRIGHT	22.8386	21.3461	20.3679	19.9478	19.7254	19.5353	0.9782	0.4201
##	309	BRIGHT	26.4437	26.2098	25.2938	24.6654	24.3597	24.2184	0.9160	0.6284
##	310	BRIGHT	27.4873	27.3498	25.3703	23.9112	23.1417	22.1805	1.9795	1.4591
##	311	BRIGHT	25.2004	24.3724	23.4452	23.1264	22.9235	22.8189	0.9272	0.3188
##	312	FAINT	25.9258	26.0576	25.8099	25.9452	26.0454	25.4083	0.2477	-0.1353
##	313	BRIGHT	23.2300	22.5759	22.0202	21.7439	21.6785	21.6027	0.5557	0.2763
##	314	FAINT	28.9676	27.3083	26.9103	26.7290	26.0699	25.7044	0.3980	0.1813
##	315	BRIGHT	28.5888	28.1393	25.9376	24.8915	23.8993	23.1113	2.2017	1.0461
##	316	FAINT	26.7504	28.0525	27.0944	26.9766	27.2288	26.5844	0.9581	0.1178
##	317	BRIGHT	24.9299	24.1194	23.2028	22.6157	22.4073	22.2263	0.9166	0.5871
##	318	BRIGHT	25.0551	23.9324	22.5934	21.8402	21.5836	21.3413	1.3390	0.7532
##	319	BRIGHT	26.8157	26.1021	25.2980	24.8096	24.3187	23.7652	0.8041	0.4884
##	320	FAINT	27.9254	28.1287	26.9084	26.1392	25.5210	25.3747	1.2203	0.7692
##	321	BRIGHT	26.4327	25.8844	24.9883	24.6789	24.6144	24.3048	0.8961	0.3094
##	322	FAINT	26.5292	26.5555	25.9100	25.2183	25.0642	24.8849	0.6455	0.6917
##	323	FAINT	27.9650	28.0733	27.3581	26.4545	25.9370	26.9657	0.7152	0.9036
##	324	FAINT	29.1260	27.1312	26.4099	25.7791	25.7062	25.4330	0.7213	0.6308
##	325	FAINT	28.1365	26.4782	25.9140	25.4864	25.2284	25.2720	0.5642	0.4276
##	326	FAINT	29.7193	28.1666	26.9776	26.0931	25.3884	24.5807	1.1890	0.8845
##	327	FAINT	27.3177	27.2095	26.3470	25.9069	25.2528	24.8578	0.8625	0.4401
##	328	FAINT	26.8396	26.8304	26.1507	25.9990	25.5460	25.5913	0.6797	0.1517
##	329	FAINT	28.6787	27.1088	26.8697	26.3146	26.0983	25.4232	0.2391	0.5551
##	330	FAINT	29.9623	27.5598	26.3882	25.3785	24.7099	24.9046	1.1716	1.0097
##	331	FAINT	28.4327	27.5443	27.1582	26.9393	26.8831	26.7725	0.3861	0.2189
##	332	BRIGHT	24.5708	24.2739	24.1071	23.6633	23.3095	22.5616	0.1668	0.4438
##	333	FAINT	27.0537	27.6282	26.7704	26.3727	26.4145	26.8237	0.8578	0.3977
##	334	FAINT	27.1552	26.9384	27.2080	26.9332	26.3650	26.5818	-0.2696	0.2748
##	335	FAINT	26.7584	26.5855	25.5746	25.2324	25.0854	24.8602	1.0109	0.3422

##	336	FAINT	26.4698	27.3062	27.2018	26.9748	25.9974	25.5285	0.1044	0.2270
##	337	FAINT	28.1960	28.0293	27.3904	26.7053	26.2285	25.6643	0.6389	0.6851
##	338	FAINT	27.8720	28.2135	27.3194	26.6130	26.9643	27.4424	0.8941	0.7064
##	339	FAINT	27.6210	26.5751	25.7979	25.5315	25.4021	24.9908	0.7772	0.2664
##	340	FAINT	27.7019	30.6803	27.0571	26.7395	26.2717	26.0022	3.6232	0.3176
##	341	FAINT	26.9279	27.4404	27.0264	26.7069	26.8628	26.2111	0.4140	0.3195
##	342	BRIGHT	25.7661	25.3532	24.5376	24.3308	24.2392	24.1038	0.8156	0.2068
##	343	FAINT	27.3069	26.9516	26.6377	26.3065	26.3433	26.1522	0.3139	0.3312
##	344	BRIGHT	28.1813	27.0512	25.8545	24.4429	23.6203	22.7383	1.1967	1.4116
##	345	FAINT	30.4115	29.1409	28.8788	26.5663	25.6585	24.9808	0.2621	2.3125
##	346	FAINT	25.9681	26.2468	26.3212	26.5362	26.3258	26.3985	-0.0744	-0.2150
##	347	BRIGHT	26.7369	26.0739	25.3442	24.7081	24.5114	24.2101	0.7297	0.6361
##	348	FAINT	27.9913	26.5464	25.6682	25.5565	25.2542	25.8206	0.8782	0.1117
##	349	FAINT	27.7527	27.7199	26.6912	26.6980	26.9500	26.0309	1.0287	-0.0068
##	350	FAINT	25.9718	26.0551	25.6356	25.1516	24.7178	24.5267	0.4195	0.4840
##	351	FAINT	28.5138	27.7720	26.8745	26.1886	25.5848	26.0083	0.8975	0.6859
##	352	FAINT	29.1739	27.1409	26.2971	26.0327	25.9454	25.5055	0.8438	0.2644
##	353	FAINT	27.2267	27.1441	26.8448	26.9160	27.1844	27.4267	0.2993	-0.0712
##	354	FAINT	26.0008	25.8306	25.3311	25.0558	24.7118	24.1275	0.4995	0.2753
##	355	FAINT	27.8822	27.3867	26.7021	25.8557	25.7375	25.2689	0.6846	0.8464
##	356	BRIGHT	25.1018	23.8720	22.6351	21.7404	21.4122	21.1443	1.2369	0.8947
##	357	BRIGHT	24.6706	24.2920	23.9063	23.3079	22.7215	22.0351	0.3857	0.5984
##	358	BRIGHT	26.3241	25.6706	25.4153	24.9061	24.6092	23.8275	0.2553	0.5092
##	359	BRIGHT	25.8011	23.8701	22.2826	21.3428	20.9600	20.6611	1.5875	0.9398
##	360	BRIGHT	22.5812	21.7168	20.6161	20.1850	19.8880	19.7253	1.1007	0.4311
##	361	FAINT	28.0217	27.3121	26.9752	26.2261	25.9022	25.3277	0.3369	0.7491
##	362	FAINT	27.2196	27.6401	26.6676	26.4311	26.9254	25.6194	0.9725	0.2365
##	363	FAINT	28.7960	28.0796	27.3208	26.6399	25.9041	25.7477	0.7588	0.6809
##	364	FAINT	27.1865	26.6528	26.6435	26.3348	26.1293	26.5912	0.0093	0.3087
##	365	FAINT	28.5259	26.8555	26.1152	25.5696	24.6987	24.2525	0.7403	0.5456
##	366	BRIGHT	26.8214	25.5879	24.8212	24.5888	24.4119	24.4516	0.7667	0.2324
##	367	FAINT	27.1077	26.6432	26.4086	25.8784	25.5995	25.1518	0.2346	0.5302
##	368	BRIGHT	24.8688	24.4109	23.6191	22.9803	22.4857	22.2897	0.7918	0.6388
##	369	BRIGHT	25.6291	25.2631	24.5914	24.2100	23.7112	23.4264	0.6717	0.3814
##	370	FAINT	27.0824	27.8641	27.0244	26.2309	25.8891	25.5651	0.8397	0.7935
##	371	BRIGHT	26.9633	26.5040	24.9983	24.3745	24.0376	23.7127	1.5057	0.6238
##	372	FAINT	27.4384	27.0193	26.4778	26.0300	25.6776	27.2406	0.5415	0.4478
##	373	BRIGHT	25.4327	25.3389	25.1078	24.8268	24.0545	23.9357	0.2311	0.2810
##	374	FAINT	27.4180	26.7883	25.7337	25.3566	25.2013	25.1973	1.0546	0.3771
##	375	FAINT	29.6378	27.5679	26.7593	25.5798	24.9041	24.1532	0.8086	1.1795
##	376	FAINT	27.0858	27.1514	26.5105	25.9775	25.8720	25.7691	0.6409	0.5330
##	377	FAINT	26.6070	26.6807	26.3724	25.7372	25.0698	25.1631	0.3083	0.6352
##	378	FAINT	28.3209	27.8608	28.0972	26.8695	26.4928	26.4666	-0.2364	1.2277
##	379	FAINT	26.5913	26.3888	26.1456	25.8008	25.4410	26.1185	0.2432	0.3448
##	380	FAINT	30.4623	28.4717	27.3977	26.8484	26.2192	26.7747	1.0740	0.5493
##	381	BRIGHT	24.2495	24.1038	23.7381	23.0610	22.7255	22.6113	0.3657	0.6771
##	382	FAINT	27.2677	27.1237	26.5940	26.0902	25.4854	24.9502	0.5297	0.5038
##	383	FAINT	26.5037	26.3746	26.1710	25.8088	25.6609	25.8071	0.2036	0.3622
##	384	BRIGHT	24.4721	24.1113	23.4038	22.6820	22.4672	22.3041	0.7075	0.7218
##	385	BRIGHT	26.4263	25.9821	25.3470	24.5989	23.9383	23.6625	0.6351	0.7481
##	386	FAINT	26.0529	25.9678	26.0370	25.9573	25.6888	25.9325	-0.0692	0.0797
##	387	BRIGHT	24.9561	24.5894	23.8193	23.2226	22.4808	21.9802	0.7701	0.5967
##	388	BRIGHT	25.1409	24.7017	23.8425	23.4831	23.3074	22.9382	0.8592	0.3594
##	389	BRIGHT	25.3603	24.9437	24.0099	23.4284	23.2757	23.1293	0.9338	0.5815
##	390	FAINT	27.9759	27.4812	27.2326	26.9173	26.0529	26.8451	0.2486	0.3153
##	391	FAINT	28.0215	27.5136	27.3587	26.9735	26.9605	27.1345	0.1549	0.3852
##	392	FAINT	36.8527	28.1223	27.4664	26.9222	27.2035	26.1811	0.6559	0.5442
##	393	FAINT	26.5886	26.4862	26.1316	25.6222	25.1638	24.5615	0.3546	0.5094
##	394	FAINT	29.2602	28.4396	27.7512	26.9853	26.9415	26.7895	0.6884	0.7659
##	395	FAINT	28.5650	27.4239	26.8621	26.0129	25.4275	24.6237	0.5618	0.8492
##	396	FAINT	28.6534	27.4907	26.7689	26.4240	25.5601	25.4161	0.7218	0.3449
##	397	FAINT	26.9923	27.0030	27.0482	26.8303	26.7900	26.2877	-0.0452	0.2179
##	398	BRIGHT	25.3396	25.1020	24.8580	24.4604	23.9999	23.3708	0.2440	0.3976
##	399	FAINT	28.4757	26.5628	25.7166	25.6753	25.2348	25.6116	0.8462	0.0413
##	400	BRIGHT	24.1339	23.5940	22.7074	21.8922	21.6332	21.4041	0.8866	0.8152
##	401	BRIGHT	22.6300	22.0843	21.0751	20.6234	20.3237	20.1244	1.0092	0.4517
##	402	BRIGHT	29.2234	27.4039	25.8067	24.6990	23.9300	23.5476	1.5972	1.1077
##	403	FAINT	30.4434	26.9048	26.2395	25.6262	25.6254	25.3120	0.6653	0.6133
##	404	FAINT	28.7953	28.8206	27.2457	26.6838	26.1226	25.2870	1.5749	0.5619
##	405	BRIGHT	24.6118	23.9994	23.2444	23.0573	22.8076	22.8496	0.7550	0.1871
##	406	FAINT	29.7204	30.5478	28.3367	26.7854	26.2727	25.8919	2.2111	1.5513
##	407	FAINT	27.1568	26.7610	26.2951	25.6248	25.1256	24.5691	0.4659	0.6703
##	408	FAINT	26.7897	26.4556	25.8084	25.0601	24.8813	24.9142	0.6472	0.7483
##	409	FAINT	27.8769	27.0131	26.2492	25.5382	25.0346	24.9083	0.7639	0.7110
##	410	FAINT	27.7941	27.3949	26.9648	26.5272	25.9680	25.4661	0.4301	0.4376
##	411	FAINT	26.9730	27.0152	26.6842	25.8275	25.4063	25.0061	0.3310	0.8567
##	412	FAINT	27.8043	27.3665	26.9136	26.2790	25.7776	25.7091	0.4529	0.6346
##	413	FAINT	28.3432	27.4456	26.8201	26.0890	26.1401	25.4619	0.6255	0.7311
##	414	FAINT	25.9190	25.8925	25.3778	25.2675	25.1101	25.0951	0.5147	0.1103

##	415	FAINT	29.9161	32.4665	27.9783	26.6219	25.7315	25.4538	4.4882	1.3564
##	416	FAINT	27.7642	27.3223	26.9128	26.7561	26.0082	26.0299	0.4095	0.1567
##	417	BRIGHT	27.7357	26.3638	25.5966	24.9377	24.8730	24.4524	0.7672	0.6589
##	418	FAINT	27.0055	27.3891	26.5685	25.7963	25.4506	25.5542	0.8206	0.7722
##	419	FAINT	28.6864	28.4416	27.3685	26.6392	26.4050	26.3856	1.0731	0.7293
##	420	FAINT	27.0240	27.0869	26.3579	25.5985	25.5028	25.1125	0.7290	0.7594
##	421	FAINT	27.4184	26.5722	26.1933	25.7248	25.2979	25.0994	0.3789	0.4685
##	422	FAINT	26.9122	26.2573	25.7954	25.7503	25.6103	26.4167	0.4619	0.0451
##	423	FAINT	25.8619	25.6739	25.1418	25.0036	24.8946	24.8689	0.5321	0.1382
##	424	BRIGHT	25.1489	24.6614	24.1470	23.5442	23.1606	22.4196	0.5144	0.6028
##	425	FAINT	27.7158	28.1063	27.3071	26.7766	26.2363	25.7883	0.7992	0.5305
##	426	FAINT	28.1183	27.8389	27.1839	26.3593	26.1057	25.8542	0.6550	0.8246
##	427	BRIGHT	23.6918	22.3866	20.9285	20.1120	19.7955	19.5006	1.4581	0.8165
##	428	FAINT	29.1071	27.4319	26.4241	25.4854	25.3063	24.6604	1.0078	0.9387
##	429	BRIGHT	25.0708	24.4945	24.0282	23.8188	23.8238	23.6736	0.4663	0.2094
##	430	BRIGHT	25.8734	25.1373	24.0903	23.0846	22.6466	22.4242	1.0470	1.0057
##	431	BRIGHT	25.4724	24.8429	23.9024	23.6406	23.4441	23.3422	0.9405	0.2618
##	432	BRIGHT	25.0214	24.3539	23.5432	23.2352	22.9978	22.9497	0.8107	0.3080
##	433	BRIGHT	26.6916	26.1220	24.3054	23.2714	22.3116	21.7051	1.8166	1.0340
##	434	FAINT	27.8292	26.4764	26.0206	25.4698	25.3302	25.2302	0.4558	0.5508
##	435	FAINT	26.9031	26.7317	26.0738	25.4176	24.8468	24.5785	0.6579	0.6562
##	436	FAINT	28.0485	28.1161	26.7137	26.0573	25.6166	25.2817	1.4024	0.6564
##	437	FAINT	27.3858	26.8991	26.5494	26.2847	26.2551	25.1931	0.3497	0.2647
##	438	BRIGHT	25.7238	24.9959	24.3375	23.6463	23.1835	22.4983	0.6584	0.6912
##	439	BRIGHT	24.8792	24.7031	24.1169	23.4312	22.6603	22.1395	0.5862	0.6857
##	440	BRIGHT	24.0746	23.8517	23.3592	22.6523	22.3796	22.2524	0.4925	0.7069
##	441	FAINT	30.3184	28.9308	27.0892	26.0542	25.1234	24.4976	1.8416	1.0350
##	442	FAINT	27.6724	27.8668	26.5792	26.3482	25.9893	26.1264	1.2876	0.2310
##	443	FAINT	26.9647	26.9162	26.6271	26.2248	25.6015	25.2289	0.2891	0.4023
##	444	FAINT	26.7790	27.3469	27.1749	26.5051	26.1767	25.3288	0.1720	0.6698
##	445	FAINT	27.5221	27.1847	26.7483	26.1970	25.5555	25.4206	0.4364	0.5513
##	446	FAINT	27.1201	26.9017	26.7579	26.1021	25.7410	25.1021	0.1438	0.6558
##	447	BRIGHT	25.6586	25.0334	24.1676	23.5733	23.4234	23.2502	0.8658	0.5943
##	448	BRIGHT	26.9739	26.4675	25.8159	24.9026	24.5389	24.4032	0.6516	0.9133
##	449	BRIGHT	25.1000	24.4403	23.4762	22.9054	22.6844	22.4158	0.9641	0.5708
##	450	BRIGHT	26.0476	25.4110	24.4310	24.2124	23.9887	24.0026	0.9800	0.2186
##	451	FAINT	27.3194	27.6462	27.4336	26.7274	26.7220	28.5262	0.2126	0.7062
##	452	BRIGHT	23.1165	22.8691	22.3760	22.3484	22.1504	22.2738	0.4931	0.0276
##	453	FAINT	26.7333	26.4687	25.9343	25.2369	24.8354	24.1756	0.5344	0.6974
##	454	BRIGHT	26.2093	25.6822	25.0678	24.5428	24.4143	24.3305	0.6144	0.5250
##	455	FAINT	27.0399	26.3052	26.2008	25.7301	25.9988	26.0179	0.1044	0.4707
##	456	FAINT	27.6123	27.8677	26.8972	25.8972	25.9160	26.6250	0.9705	1.0000
##	457	FAINT	29.8842	29.6865	26.9195	25.9302	25.1146	24.4270	2.7670	0.9893
##	458	BRIGHT	24.6347	24.1052	23.2741	23.0388	22.8009	22.8012	0.8311	0.2353
##	459	FAINT	27.6762	27.5243	27.4234	26.9345	26.4387	26.1565	0.1009	0.4889
##	460	FAINT	25.6138	25.3977	25.3032	25.0375	24.7027	24.2910	0.0945	0.2657
##	461	BRIGHT	25.5740	25.2959	24.5977	23.7623	23.4284	23.2391	0.6982	0.8354
##	462	FAINT	26.7361	26.9623	26.5855	26.6204	26.1224	26.5830	0.3768	-0.0349
##	463	FAINT	28.7148	29.5105	27.2290	26.2922	26.0931	25.2527	2.2815	0.9368
##	464	BRIGHT	26.3355	25.7632	24.6097	23.7609	22.8670	22.4774	1.1535	0.8488
##	465	FAINT	28.1864	27.7824	27.2089	26.6748	27.0741	26.3367	0.5735	0.5341
##	466	FAINT	28.7646	28.1991	27.6200	26.9656	26.7275	26.0238	0.5791	0.6544
##	467	FAINT	28.9227	28.9022	27.5893	26.8314	26.9021	26.7571	1.3129	0.7579
##	468	BRIGHT	27.0059	26.3299	24.9842	23.9079	23.1379	22.7821	1.3457	1.0763
##	469	FAINT	27.1001	27.3545	26.7444	26.8197	26.0579	26.3186	0.6101	-0.0753
##	470	BRIGHT	23.6058	22.8714	21.9877	21.6584	21.3693	21.2226	0.8837	0.3293
##	471	FAINT	27.6490	26.7442	26.8898	26.6067	26.4354	25.7125	-0.1456	0.2831
##	472	FAINT	28.0604	29.2126	27.7439	26.5592	26.3708	26.6367	1.4687	1.1847
##	473	FAINT	28.2873	27.7504	27.6390	26.9688	27.0349	26.4308	0.1114	0.6702
##	474	FAINT	27.6199	26.3002	25.9438	26.0126	25.4684	25.5076	0.3564	-0.0688
##	475	FAINT	25.8020	25.8617	25.6155	25.1860	24.7998	24.3668	0.2462	0.4295
##	476	FAINT	26.7132	26.8980	26.7679	26.2050	25.6667	25.2602	0.1301	0.5629
##	477	FAINT	31.1815	27.5236	27.0347	26.4087	26.3759	25.6546	0.4889	0.6260
##	478	FAINT	28.0821	27.2160	26.8038	25.8944	25.7195	26.0702	0.4122	0.9094
##	479	FAINT	27.0674	26.9086	26.4179	26.3024	26.2647	26.0541	0.4907	0.1155
##	480	FAINT	27.3848	27.5687	27.1519	26.0297	25.8223	25.8201	0.4168	1.1222
##	481	FAINT	27.6319	26.8675	26.2518	25.7940	25.1676	24.5073	0.6157	0.4578
##	482	FAINT	27.2315	26.7870	26.2018	26.0950	25.8687	25.9616	0.5852	0.1068
##	483	FAINT	25.7239	25.9963	25.7341	25.2148	24.7583	24.9269	0.2622	0.5193
##	484	FAINT	28.8682	28.6631	27.0142	25.9159	25.2048	24.7385	1.6489	1.0983
##	485	FAINT	28.2425	30.5076	27.6542	26.8447	26.4761	25.6493	2.8534	0.8095
##	486	FAINT	27.8159	26.6229	25.7376	25.5433	25.1807	25.6213	0.8853	0.1943
##	487	BRIGHT	27.4223	26.7003	25.6606	24.3950	23.6042	22.6951	1.0397	1.2656
##	488	BRIGHT	26.2515	25.3375	24.4930	24.1330	23.8939	23.7426	0.8445	0.3600
##	489	BRIGHT	26.8693	26.2582	25.1227	24.6605	24.5925	24.1767	1.1355	0.4622
##	490	FAINT	29.6689	27.5444	26.7855	26.5447	26.5815	26.1559	0.7589	0.2408
##	491	BRIGHT	27.0461	25.9907	24.9853	24.3265	23.5836	23.0732	1.0054	0.6588
##	492	FAINT	25.6388	25.2209	25.2205	25.0823	25.4731	25.2266	0.0004	0.1382
##	493	BRIGHT	26.0285	25.8239	25.4234	24.7892	24.6452	24.4958	0.4005	0.6342

##	494	FAINT	28.7302	28.2004	27.1892	26.6220	26.5873	26.5238	1.0112	0.5672
##	495	FAINT	27.4215	27.3367	26.5447	25.5612	25.1779	25.4205	0.7920	0.9835
##	496	BRIGHT	28.0226	26.4217	24.4191	23.2229	22.3823	22.0273	2.0026	1.1962
##	497	FAINT	26.1695	25.7124	25.4275	25.3119	25.3214	26.1417	0.2849	0.1156
##	498	BRIGHT	26.9307	26.7803	25.7519	24.6302	24.2334	24.1036	1.0284	1.1217
##	499	FAINT	28.1019	28.0327	27.0455	26.4218	25.8209	25.2894	0.9872	0.6237
##	500	FAINT	30.8422	29.0325	27.3424	26.8363	26.9582	26.2325	1.6901	0.5061
##	501	BRIGHT	26.1806	25.2720	24.1508	23.6976	23.4230	23.2300	1.1212	0.4532
##	502	BRIGHT	20.2639	19.4075	18.8305	18.5348	18.4000	18.2745	0.5770	0.2957
##	503	BRIGHT	24.4447	23.6163	22.4218	22.0092	21.8186	21.4201	1.1945	0.4126
##	504	FAINT	28.4739	26.9513	26.6372	26.3389	25.7025	25.3830	0.3141	0.2983
##	505	FAINT	27.6617	28.0888	26.6617	25.4990	24.5369	24.1753	1.4271	1.1627
##	506	FAINT	29.1909	27.9193	26.4086	26.1388	25.5457	25.3637	1.5107	0.2698
##	507	BRIGHT	23.0128	21.3579	19.8800	19.3776	19.0498	18.9045	1.4779	0.5024
##	508	BRIGHT	25.5479	25.8267	25.2174	24.4558	24.2055	24.2442	0.6093	0.7616
##	509	FAINT	28.4472	27.1085	26.3938	25.4386	24.9748	24.8311	0.7147	0.9552
##	510	BRIGHT	22.9788	22.2445	21.2250	20.9376	20.6814	20.6079	1.0195	0.2874
##	511	BRIGHT	27.6612	28.6202	25.7107	24.4703	23.5188	22.7133	2.9095	1.2404
##	512	FAINT	28.0762	27.8640	27.7373	26.8451	28.2721	26.2001	0.1267	0.8922
##	513	FAINT	27.0217	27.1235	26.2985	26.0331	26.0401	26.0192	0.8250	0.2654
##	514	FAINT	28.3422	27.6058	27.4801	26.7419	26.5549	28.2737	0.1257	0.7382
##	515	BRIGHT	25.8172	25.5616	24.6561	23.9209	23.6670	23.3983	0.9055	0.7352
##	516	FAINT	25.7962	25.4935	25.3700	25.0707	24.7355	24.2288	0.1235	0.2993
##	517	BRIGHT	26.0703	25.2355	24.6052	24.3529	24.3053	24.2128	0.6303	0.2523
##	518	FAINT	27.0891	26.4536	26.5474	26.6934	25.8185	26.1152	-0.0938	-0.1460
##	519	BRIGHT	26.6229	26.1552	25.1175	24.0637	23.5936	23.2623	1.0377	1.0538
##	520	FAINT	27.6830	27.5915	27.1536	26.1960	25.3805	24.4897	0.4379	0.9576
##	521	FAINT	27.1098	26.8451	26.0134	25.4687	24.9263	24.8137	0.8317	0.5447
##	522	BRIGHT	23.3165	22.3395	21.7222	21.3974	21.2748	21.1485	0.6173	0.3248
##	523	FAINT	27.0575	26.6007	25.7109	25.1956	24.9735	24.3877	0.8898	0.5153
##	524	BRIGHT	25.3016	25.3157	24.7639	24.0785	23.4769	23.2545	0.5518	0.6854
##	525	FAINT	28.3696	27.0106	26.9621	26.8926	27.2439	27.2430	0.0485	0.0695
##	526	BRIGHT	25.6665	24.6201	23.9360	23.6201	23.5089	23.4223	0.6841	0.3159
##	527	BRIGHT	26.4734	26.1020	24.6635	23.5215	22.6677	22.2391	1.4385	1.1420
##	528	FAINT	28.1430	26.5729	25.3849	25.0080	24.8239	24.4767	1.1880	0.3769
##	529	FAINT	25.1355	25.2514	25.1287	25.2592	25.2431	25.5396	0.1227	-0.1305
##	530	FAINT	26.0570	26.0643	25.4370	25.4105	24.9558	25.3071	0.6273	0.0265
##	531	BRIGHT	28.9154	27.7748	26.1331	24.5945	23.8967	22.9252	1.6417	1.5386
##	532	FAINT	28.8341	28.2610	29.0120	26.8491	29.3536	29.4473	-0.7510	2.1629
##	533	FAINT	30.0770	29.2246	28.1935	26.1588	25.4681	24.5143	1.0311	2.0347
##	534	FAINT	26.8355	26.8470	26.0517	25.5071	24.9643	24.7531	0.7953	0.5446
##	535	FAINT	27.7603	27.1476	27.0173	26.3089	25.8770	25.7524	0.1303	0.7084
##	536	BRIGHT	22.4467	21.6359	20.5706	20.0357	19.8010	19.4866	1.0653	0.5349
##	537	BRIGHT	24.5933	23.9372	23.2778	23.0985	22.8414	22.8609	0.6594	0.1793
##	538	FAINT	27.3691	26.2312	25.6523	25.0648	24.8015	23.9538	0.5789	0.5875
##	539	FAINT	27.6566	27.8425	27.5933	26.8087	26.2809	32.0570	0.2492	0.7846
##	540	FAINT	28.2388	27.3617	26.9664	26.6674	25.9703	26.1305	0.3953	0.2990
##	541	BRIGHT	23.9659	23.5582	22.7772	22.1860	22.0021	21.8036	0.7810	0.5912
##	542	BRIGHT	25.6980	23.3357	21.6949	20.5325	20.1028	19.7526	1.6408	1.1624
##	543	BRIGHT	24.7895	24.0067	23.4142	23.2343	23.0046	23.0352	0.5925	0.1799
##	544	FAINT	25.9012	25.7579	25.2469	25.1725	24.9747	25.1911	0.5110	0.0744
##	545	BRIGHT	23.2140	22.2042	21.2896	21.0100	20.7518	20.6995	0.9146	0.2796
##	546	FAINT	27.1556	26.9311	25.7750	25.4462	25.3962	25.1837	1.1561	0.3288
##	547	FAINT	26.5626	26.6419	25.7785	25.7744	25.3959	25.6107	0.8634	0.0041
##	548	FAINT	28.9460	27.2009	26.4971	25.9624	25.3233	25.1552	0.7038	0.5347
##	549	FAINT	29.5818	29.2373	26.7837	26.1100	25.8768	25.5572	2.4536	0.6737
##	550	FAINT	28.0883	27.7839	26.0242	25.5055	25.2617	24.9525	1.7597	0.5187
##	551	BRIGHT	26.8765	25.7741	24.7312	24.3067	24.1297	23.6958	1.0429	0.4245
##	552	FAINT	27.2801	27.2023	26.6469	26.0903	25.8149	25.4587	0.5554	0.5566
##	553	FAINT	27.5045	27.6131	26.2268	25.3565	24.5486	23.7443	1.3863	0.8703
##	554	BRIGHT	28.3174	25.7828	24.5730	24.1637	23.8641	23.6642	1.2098	0.4093
##	555	BRIGHT	24.3582	23.7813	23.0748	22.8645	22.6087	22.5929	0.7065	0.2103
##	556	FAINT	27.7747	27.5889	26.8566	26.3438	26.5341	25.7917	0.7323	0.5128
##	557	FAINT	27.1329	26.8958	26.1553	25.5551	25.2125	25.0532	0.7405	0.6002
##	558	BRIGHT	24.9059	24.7000	24.0431	23.5919	23.4302	23.1884	0.6569	0.4512
##	559	FAINT	28.6326	27.7432	27.3650	26.6810	26.5319	27.1445	0.3782	0.6840
##	560	BRIGHT	25.8826	25.6394	24.9397	24.6905	24.4763	24.4631	0.6997	0.2492
##	561	FAINT	27.4140	27.3241	26.7838	26.1540	25.5733	25.1285	0.5403	0.6298
##	562	BRIGHT	25.0089	23.2159	21.5783	20.3853	19.9409	19.6037	1.6376	1.1930
##	563	BRIGHT	26.5729	25.9211	25.1454	24.3587	23.9061	23.6062	0.7757	0.7867
##	564	BRIGHT	26.8958	25.7837	25.0978	24.9707	24.6494	24.7591	0.6859	0.1271
##	565	FAINT	26.7940	26.5083	26.2783	26.0564	25.8902	26.4286	0.2300	0.2219
##	566	FAINT	26.6354	27.0321	26.5552	26.4331	26.1446	26.0224	0.4769	0.1221
##	567	FAINT	27.5683	27.3667	26.7367	26.5808	26.2604	25.6098	0.6300	0.1559
##	568	FAINT	28.8450	27.3708	26.3713	25.4366	25.1953	26.0430	0.9995	0.9347
##	569	FAINT	27.2710	27.5724	26.6630	26.4198	26.1735	25.8297	0.9094	0.2432
##	570	BRIGHT	26.3485	25.7506	24.9821	24.1739	23.7665	23.5599	0.7685	0.8082
##	571	BRIGHT	25.8774	25.5212	25.2111	24.5947	24.1053	23.3105	0.3101	0.6164
##	572	FAINT	28.0426	27.4919	26.4493	25.7114	25.3578	24.9979	1.0426	0.7379

##	573	FAINT	27.1621	27.0493	26.8377	26.5805	26.1399	26.6994	0.2116	0.2572
##	574	FAINT	26.0923	25.9598	25.8256	25.5216	25.3309	25.2875	0.1342	0.3040
##	575	FAINT	27.0079	28.0138	27.0824	26.9590	27.0024	26.1845	0.9314	0.1234
##	576	BRIGHT	25.0770	25.0070	24.9274	24.9539	25.1225	24.5462	0.0796	-0.0265
##	577	FAINT	28.2178	26.9856	25.9280	25.8168	25.6644	25.4804	1.0576	0.1112
##	578	FAINT	30.4923	28.0408	27.6787	26.9712	25.8640	25.6226	0.3621	0.7075
##	579	FAINT	28.6084	26.8151	26.1246	25.7877	25.9309	25.7472	0.6905	0.3369
##	580	FAINT	27.0915	26.8823	26.1233	25.3155	25.1000	25.0657	0.7590	0.8078
##	581	BRIGHT	26.0832	25.4133	24.2836	23.1989	22.5120	22.2239	1.1297	1.0847
##	582	BRIGHT	25.8708	25.3421	24.8113	24.6024	24.4580	24.2040	0.5308	0.2089
##	583	BRIGHT	23.4418	23.3832	23.2349	23.4289	23.1276	23.5903	0.1483	-0.1940
##	584	FAINT	27.5112	27.2312	26.8901	26.6998	25.9744	26.2950	0.3411	0.1903
##	585	FAINT	26.3440	26.1971	25.6750	25.5880	24.6433	24.2450	0.5221	0.0870
##	586	BRIGHT	27.1922	25.8440	24.3274	23.7169	23.3909	23.3133	1.5166	0.6105
##	587	BRIGHT	26.4877	25.2843	24.3980	24.2160	24.0621	24.1084	0.8863	0.1820
##	588	FAINT	27.0348	27.5402	26.7943	26.0020	25.5316	25.3647	0.7459	0.7923
##	589	FAINT	28.6693	28.1162	27.7643	26.4768	26.5379	25.7896	0.3519	1.2875
##	590	BRIGHT	26.9222	26.4698	25.8894	24.9666	24.3467	23.6223	0.5804	0.9228
##	591	FAINT	27.2493	27.6024	26.9934	26.8539	26.3635	26.1279	0.6090	0.1395
##	592	FAINT	27.0509	27.0331	26.9321	26.1739	25.8860	25.2565	0.1010	0.7582
##	593	BRIGHT	25.9335	25.7030	24.9480	24.7782	24.5129	24.5124	0.7550	0.1698
##	594	FAINT	27.5501	27.6871	27.0015	26.8139	26.3678	25.8594	0.6856	0.1876
##	595	BRIGHT	24.9931	24.5359	23.8763	23.1259	22.8556	22.6224	0.6596	0.7504
##	596	FAINT	28.7489	28.7292	27.7945	26.9603	26.7445	26.3388	0.9347	0.8342
##	597	FAINT	27.4180	27.4651	26.6157	25.8952	25.9444	26.3932	0.8494	0.7205
##	598	BRIGHT	26.6397	26.2915	25.5664	24.8883	24.6813	24.6323	0.7251	0.6781
##	599	BRIGHT	22.7401	22.2104	22.0282	21.8814	21.9122	21.8986	0.1822	0.1468
##	600	FAINT	27.3024	27.2163	26.5463	25.9016	26.2000	25.3249	0.6700	0.6447
##	601	FAINT	28.1582	27.4714	27.0678	26.1705	26.4845	25.6541	0.4036	0.8973
##	602	FAINT	27.3820	27.7415	27.2049	26.7675	27.3187	28.3076	0.5366	0.4374
##	603	FAINT	29.8635	29.1922	27.9199	26.9022	25.8421	25.9109	1.2723	1.0177
##	604	FAINT	27.1120	26.7614	26.3121	26.0764	25.7854	24.8768	0.4493	0.2357
##	605	FAINT	27.8316	28.3147	27.4205	26.6772	26.3173	25.5986	0.8942	0.7433
##	606	FAINT	29.7973	29.3991	27.5698	26.3791	26.9954	26.0468	1.8293	1.1907
##	607	FAINT	28.4362	27.1428	26.2244	25.7117	25.3231	25.1149	0.9184	0.5127
##	608	FAINT	27.3721	26.6920	26.0402	25.3071	24.6131	24.1386	0.6518	0.7331
##	609	BRIGHT	24.1385	22.7327	21.3337	20.9243	20.6939	20.5681	1.3990	0.4094
##	610	BRIGHT	25.8630	25.4471	24.7808	24.0665	23.4590	23.1986	0.6663	0.7143
##	611	FAINT	26.8488	26.5854	26.0119	25.2686	24.8260	24.1527	0.5735	0.7433
##	612	FAINT	26.2779	26.1817	25.7776	25.4182	25.5378	25.2095	0.4041	0.3594
##	613	FAINT	28.0566	28.1656	26.8990	26.6234	26.2563	26.2184	1.2666	0.2756
##	614	FAINT	26.8922	26.8536	26.4868	26.1823	26.0600	26.8419	0.3668	0.3045
##	615	BRIGHT	26.7156	25.4224	24.7155	24.4364	24.3013	24.2063	0.7069	0.2791
##	616	FAINT	29.1934	28.2053	26.6776	25.4455	24.7023	23.8130	1.5277	1.2321
##	617	FAINT	28.0025	27.6442	27.2204	26.3755	26.2448	25.5939	0.4238	0.8449
##	618	BRIGHT	19.9762	19.0557	18.4569	18.0945	18.0385	17.8989	0.5988	0.3624
##	619	BRIGHT	24.9933	24.3763	24.0741	23.9415	23.8545	23.8197	0.3022	0.1326
##	620	FAINT	29.7575	28.4009	27.4614	26.5193	26.7550	26.5651	0.9395	0.9421
##	621	FAINT	27.3395	27.5624	26.4405	25.9388	25.1057	25.1708	1.1219	0.5017
##	622	BRIGHT	26.1251	25.5543	24.6669	24.3666	24.1199	23.9340	0.8874	0.3003
##	623	FAINT	28.4766	28.2511	27.6187	26.8846	26.7318	26.4062	0.6324	0.7341
##	624	BRIGHT	26.6499	26.1341	25.4576	24.6754	24.4884	24.4935	0.6765	0.7822
##	625	FAINT	26.5171	27.0042	26.3750	26.1686	25.5679	25.4298	0.6292	0.2064
##	626	FAINT	28.3758	26.9838	26.7541	26.4631	27.2039	26.7701	0.2297	0.2910
##	627	FAINT	27.7174	27.8671	26.8295	26.5440	26.3099	25.4986	1.0376	0.2855
##	628	FAINT	27.7751	27.1470	26.9989	26.6076	26.6416	26.0205	0.1481	0.3913
##	629	BRIGHT	23.5153	23.2699	22.6597	21.8594	21.4056	21.2361	0.6102	0.8003
##	630	FAINT	28.4761	28.0962	27.2142	26.5877	25.8510	25.5064	0.8820	0.6265
##	631	FAINT	27.1495	26.5000	25.9463	26.1650	25.8643	25.9543	0.5537	-0.2187
##	632	FAINT	28.7399	27.9479	27.0984	25.7151	24.8497	24.0517	0.8495	1.3833
##	633	FAINT	27.8107	26.7526	25.9857	25.3928	24.8109	24.0491	0.7669	0.5929
##	634	FAINT	26.6129	26.4366	26.5681	26.8074	26.7949	26.5036	-0.1315	-0.2393
##	635	FAINT	29.3587	26.4010	26.1707	26.1996	25.5491	26.9453	0.2303	-0.0289
##	636	FAINT	27.3074	26.6258	25.9973	25.4779	24.7861	24.3359	0.6285	0.5194
##	637	FAINT	26.5395	26.7814	26.9901	25.9538	25.5925	24.8298	-0.2087	1.0363
##	638	FAINT	27.0094	26.9176	25.9512	25.2421	25.4112	25.0116	0.9664	0.7091
##	639	FAINT	26.6288	26.4024	26.3490	26.2776	26.3300	26.1695	0.0534	0.0714
##	640	BRIGHT	25.9028	25.4124	24.8235	24.7330	24.5973	24.4821	0.5889	0.0905
##	641	FAINT	28.4119	27.9291	27.4877	26.4137	26.0595	25.7010	0.4414	1.0740
##	642	BRIGHT	25.2019	25.2242	25.1346	24.7450	24.4134	24.2186	0.0896	0.3896
##	643	FAINT	26.9482	26.5323	25.8731	25.2150	24.8205	24.8485	0.6592	0.6581
##	644	FAINT	27.2643	26.7579	26.5240	26.2477	26.2140	26.3592	0.2339	0.2763
##	645	FAINT	27.5321	27.7479	26.9908	26.9268	26.5838	25.9915	0.7571	0.0640
##	646	FAINT	27.7173	27.7929	26.5073	26.2083	26.4241	25.8621	1.2856	0.2990
##	647	BRIGHT	28.8467	26.8203	25.2470	24.7442	24.3852	24.1830	1.5733	0.5028
##	648	BRIGHT	26.8350	25.8237	24.5850	24.3922	24.0665	24.0854	1.2387	0.1928
##	649	BRIGHT	25.1631	24.6294	24.0094	23.8564	23.6622	23.7008	0.6200	0.1530
##	650	FAINT	28.1518	29.1289	27.8095	26.9207	24.9791	24.0251	1.3194	0.8888
##	651	FAINT	26.7530	26.4950	26.4352	26.2391	25.9712	25.5300	0.0598	0.1961

##	652	BRIGHT	24.4279	23.7453	23.2688	23.0013	22.9587	22.8954	0.4765	0.2675
##	653	FAINT	26.8035	26.7433	26.6533	26.3361	25.7171	25.8009	0.0900	0.3172
##	654	FAINT	28.7811	27.5019	26.6088	25.9921	25.5102	24.7198	0.8931	0.6167
##	655	FAINT	29.3899	28.6912	27.7836	26.9528	26.2946	25.8551	0.9076	0.8308
##	656	BRIGHT	25.8465	24.8110	24.0954	23.9011	23.7465	23.8182	0.7156	0.1943
##	657	BRIGHT	28.7464	26.7935	25.7819	23.8680	23.1131	22.0911	1.0116	1.9139
##	658	FAINT	27.6194	26.8368	26.4548	25.8131	25.3908	25.0678	0.3820	0.6417
##	659	FAINT	26.9892	27.8964	27.4530	26.6692	26.4597	26.1218	0.4434	0.7838
##	660	FAINT	28.1638	27.1619	26.3723	26.2182	25.6826	25.9989	0.7896	0.1541
##	661	FAINT	26.9896	27.0399	26.0198	25.2138	24.6417	24.4897	1.0201	0.8060
##	662	FAINT	27.9930	27.8644	26.3957	25.0787	24.2376	23.3662	1.4687	1.3170
##	663	FAINT	27.7334	27.4050	26.4771	25.5148	25.4553	24.7178	0.9279	0.9623
##	664	BRIGHT	26.3412	26.0033	25.6003	24.9510	24.5995	24.0068	0.4030	0.6493
##	665	FAINT	26.1349	26.7305	26.5350	26.1353	26.1861	26.1410	0.1955	0.3997
##	666	FAINT	27.1515	27.3057	27.1437	25.9098	25.2738	24.6821	0.1620	1.2339
##	667	FAINT	27.7041	27.0821	26.6329	26.0001	25.7705	25.2782	0.4492	0.6328
##	668	FAINT	26.6644	26.7770	26.6267	26.7237	26.4372	26.5900	0.1503	-0.0970
##	669	FAINT	25.7410	26.3187	26.1884	26.1027	26.0958	27.1428	0.1303	0.0857
##	670	FAINT	26.9012	26.4165	26.2988	26.1255	26.1148	25.5678	0.1177	0.1733
##	671	BRIGHT	25.8828	25.0580	24.2515	23.6811	23.1798	22.9835	0.8065	0.5704
##	672	FAINT	26.9608	27.0465	26.3697	26.2700	26.2190	25.8667	0.6768	0.0997
##	673	FAINT	26.9922	26.9800	26.9511	26.8878	27.7265	26.5438	0.0289	0.0633
##	674	FAINT	28.0674	28.0202	27.2809	26.9605	27.3514	26.3589	0.7393	0.3204
##	675	BRIGHT	24.6645	22.5436	20.9118	20.2203	19.8550	19.6338	1.6318	0.6915
##	676	FAINT	29.5551	27.2525	26.8792	26.3103	26.2714	26.5334	0.3733	0.5689
##	677	BRIGHT	25.4626	25.2729	24.8489	24.6526	24.3866	23.9877	0.4240	0.1963
##	678	FAINT	28.2475	28.3282	26.9434	26.2687	26.3868	26.0122	1.3848	0.6747
##	679	FAINT	27.8485	27.2948	26.1193	25.6470	25.4799	24.9331	1.1755	0.4723
##	680	FAINT	28.3711	27.5056	26.8019	26.4948	26.5868	25.9298	0.7037	0.3071
##	681	FAINT	26.4126	26.6296	26.3488	25.9955	26.2372	25.4924	0.2808	0.3533
##	682	BRIGHT	26.1009	25.6011	24.8512	24.1613	24.0219	23.9994	0.7499	0.6899
##	683	BRIGHT	25.4490	25.3558	25.0249	24.5062	24.1466	23.9723	0.3309	0.5187
##	684	BRIGHT	25.5948	25.0593	24.0972	23.3792	23.1700	22.9654	0.9621	0.7180
##	685	FAINT	31.3421	29.3940	29.1376	26.9787	25.9819	25.2804	0.2564	2.1589
##	686	FAINT	28.4407	27.3208	27.6826	26.8927	26.6854	27.2617	-0.3618	0.7899
##	687	BRIGHT	25.5583	25.5793	24.9156	24.3657	24.1502	24.0166	0.6637	0.5499
##	688	BRIGHT	25.7951	25.5425	24.9694	24.7643	24.7582	24.7452	0.5731	0.2051
##	689	BRIGHT	27.3278	25.9651	25.2427	24.2586	23.7638	22.8840	0.7224	0.9841
##	690	FAINT	26.6701	27.0507	26.9534	26.3692	25.6042	25.4900	0.0973	0.5842
##	691	FAINT	26.4885	26.0154	25.5884	25.1061	24.7754	24.4775	0.4270	0.4823
##	692	FAINT	27.4272	27.1817	26.4120	25.8322	26.0377	25.6555	0.7697	0.5798
##	693	BRIGHT	24.4307	24.4831	24.3180	24.3657	24.5185	24.1745	0.1651	-0.0477
##	694	BRIGHT	28.6113	27.8474	26.6800	24.9486	24.2933	23.3947	1.1674	1.7314
##	695	FAINT	29.9889	28.4232	27.7492	26.9615	26.2671	25.3650	0.6740	0.7877
##	696	BRIGHT	24.5049	23.7876	22.9964	22.7659	22.5265	22.4745	0.7912	0.2305
##	697	FAINT	28.5580	26.9408	26.3938	25.5753	25.3122	25.1769	0.5470	0.8185
##	698	FAINT	26.4892	26.4942	26.3643	26.1354	26.4937	25.7970	0.1299	0.2289
##	699	FAINT	29.3407	32.3031	28.1429	26.9143	26.6633	26.4688	4.1602	1.2286
##	700	BRIGHT	23.2148	22.3941	21.3457	21.0036	20.8348	20.5427	1.0484	0.3421
##	701	BRIGHT	25.3161	25.1454	24.5848	24.0893	23.9432	23.9309	0.5606	0.4955
##	702	BRIGHT	26.0145	25.5579	25.0323	24.2871	23.9484	23.7754	0.5256	0.7452
##	703	BRIGHT	26.4107	25.9316	25.2600	24.4715	24.3057	24.1356	0.6716	0.7885
##	704	BRIGHT	25.1487	25.0724	24.9554	24.8550	24.6934	24.2742	0.1170	0.1004
##	705	FAINT	27.4361	27.9825	26.9155	26.4879	26.2968	28.4916	1.0670	0.4276
##	706	FAINT	25.9756	26.1835	25.6067	25.0817	24.4447	24.0942	0.5768	0.5250
##	707	FAINT	26.9858	26.8166	26.5112	25.6065	25.5684	24.9817	0.3054	0.9047
##	708	BRIGHT	21.7215	20.7672	19.9819	19.7292	19.4735	19.4461	0.7853	0.2527
##	709	BRIGHT	24.8509	24.6580	24.3731	23.8711	23.2913	22.7088	0.2849	0.5020
##	710	FAINT	28.9774	28.1734	27.3782	26.8960	26.4855	26.2335	0.7952	0.4822
##	711	BRIGHT	27.5113	27.0579	25.6235	24.5289	24.2416	23.8103	1.4344	1.0946
##	712	BRIGHT	25.7052	24.4781	23.9758	23.6352	23.5175	23.3387	0.5023	0.3406
##	713	FAINT	26.9136	26.7263	26.8978	26.7754	27.4267	26.7343	-0.1715	0.1224
##	714	FAINT	26.6506	26.7749	26.5828	26.2014	26.2575	25.5754	0.1921	0.3814
##	715	FAINT	27.3916	27.4414	27.2265	26.8522	26.4722	26.1142	0.2149	0.3743
##	716	BRIGHT	28.1099	26.4051	25.0618	23.9375	22.9633	22.2044	1.3433	1.1243
##	717	FAINT	30.5556	28.5376	27.4216	25.7560	24.6030	23.8133	1.1160	1.6656
##	718	BRIGHT	23.3144	23.1315	22.5990	21.9830	21.8420	21.7913	0.5325	0.6160
##	719	BRIGHT	25.0927	24.8315	23.6063	22.6589	21.6757	21.0691	1.2252	0.9474
##	720	BRIGHT	27.2286	26.2200	25.5109	24.8386	24.0476	23.7709	0.7091	0.6723
##	721	BRIGHT	24.3435	23.8622	23.1087	22.6515	22.5174	22.4038	0.7535	0.4572
##	722	FAINT	26.5972	26.3227	25.8365	25.3666	24.8251	24.7748	0.4862	0.4699
##	723	FAINT	26.5416	25.8031	25.2296	25.0393	24.9600	25.3456	0.5735	0.1903
##	724	BRIGHT	24.8174	24.7016	24.2389	24.0397	23.9958	23.8177	0.4627	0.1992
##	725	FAINT	27.4402	27.6345	26.6912	26.0877	25.6573	25.0772	0.9433	0.6035
##	726	FAINT	28.5363	27.4053	26.7100	26.0640	26.2714	25.2417	0.6953	0.6460
##	727	BRIGHT	24.1342	22.9769	22.3293	21.9968	21.8628	21.7306	0.6476	0.3325
##	728	FAINT	26.7814	26.8832	26.5360	26.0011	26.2026	25.6532	0.3472	0.5349
##	729	FAINT	26.2668	26.1109	26.0153	25.9878	25.9726	25.6165	0.0956	0.0275
##	730	BRIGHT	24.7036	24.5121	24.0194	23.5128	23.3780	23.2564	0.4927	0.5066

##	731	FAINT	28.8032	27.9682	27.0796	26.0774	25.3250	24.3312	0.8886	1.0022
##	732	FAINT	27.0899	26.5964	26.1370	25.6555	24.9988	24.4830	0.4594	0.4815
##	733	FAINT	26.3468	26.3092	25.6387	25.3830	25.2432	25.2133	0.6705	0.2557
##	734	BRIGHT	26.6872	25.9890	25.1308	24.3830	23.8257	23.1229	0.8582	0.7478
##	735	FAINT	27.5627	27.6210	27.0398	26.4532	25.8537	25.3688	0.5812	0.5866
##	736	FAINT	29.5245	27.9911	27.2229	26.7647	26.5536	26.3514	0.7682	0.4582
##	737	FAINT	28.9612	28.6634	28.1678	26.3595	25.8875	24.9158	0.4956	1.8083
##	738	BRIGHT	24.9580	22.7981	21.1401	20.3251	19.9303	19.6578	1.6580	0.8150
##	739	FAINT	27.4121	27.3996	26.6346	26.5729	26.0584	26.0138	0.7650	0.0617
##	740	BRIGHT	24.5656	24.1491	23.3821	22.5344	22.2246	22.0387	0.7670	0.8477
##	741	BRIGHT	23.8137	23.0285	22.3177	21.6227	21.4548	21.2749	0.7108	0.6950
##	742	FAINT	27.0253	26.6497	26.6514	26.0881	25.6297	25.1678	-0.0017	0.5633
##	743	FAINT	27.5982	27.2545	26.4385	25.8653	25.5067	25.1635	0.8160	0.5732
##	744	FAINT	27.4586	26.8496	26.3403	25.5644	25.0496	25.1186	0.5093	0.7759
##	745	FAINT	26.8179	27.2903	26.9057	26.3391	25.7969	25.2109	0.3846	0.5666
##	746	BRIGHT	25.6623	25.0498	24.6855	24.5248	24.4359	24.1475	0.3643	0.1607
##	747	FAINT	26.9838	27.8966	26.6227	25.8357	25.3789	24.8486	1.2739	0.7870
##	748	FAINT	26.6945	26.4067	26.3602	25.9315	25.6986	25.0812	0.0465	0.4287
##	749	FAINT	28.2123	32.3913	27.1901	26.5166	26.3533	25.6037	5.2012	0.6735
##	750	FAINT	27.6479	26.4666	25.7451	25.4450	25.3114	25.3922	0.7215	0.3001
##	751	FAINT	27.0335	28.1300	27.5699	26.7675	26.6550	26.6812	0.5601	0.8024
##	752	BRIGHT	26.6463	25.8386	24.8303	24.0730	23.9191	23.6230	1.0083	0.7573
##	753	FAINT	27.1786	27.5678	27.1779	26.7521	26.3139	27.1624	0.3899	0.4258
##	754	FAINT	30.7587	28.4034	27.4576	26.7073	25.2414	24.4158	0.9458	0.7503
##	755	BRIGHT	25.6882	25.6761	24.9967	24.7307	24.6732	24.1380	0.6794	0.2660
##	756	FAINT	28.4695	26.7311	25.8324	25.3807	25.2008	24.8744	0.8987	0.4517
##	757	FAINT	26.1190	26.0932	25.9420	25.7274	25.4476	25.1663	0.1512	0.2146
##	758	FAINT	27.3215	26.9466	26.1038	25.3679	25.3477	25.2460	0.8428	0.7359
##	759	BRIGHT	22.4724	20.8844	19.5779	19.0539	18.7436	18.4975	1.3065	0.5240
##	760	BRIGHT	27.6427	26.4094	24.9952	24.5269	24.2564	24.0512	1.4142	0.4683
##	761	FAINT	27.3650	27.0471	26.6265	26.4512	26.0680	25.9384	0.4206	0.1753
##	762	FAINT	27.5439	27.0483	26.7956	26.4784	25.6716	24.8203	0.2527	0.3172
##	763	BRIGHT	24.4468	24.1425	23.5624	23.4532	23.1703	23.1720	0.5801	0.1092
##	764	BRIGHT	26.3756	25.6556	25.1799	24.8893	24.7418	24.7670	0.4757	0.2906
##	765	BRIGHT	25.9924	25.9385	24.8044	23.8177	23.4069	22.9936	1.1341	0.9867
##	766	FAINT	28.1133	27.5612	26.6047	26.1764	25.8956	27.0384	0.9565	0.4283
##	767	FAINT	25.6965	25.5062	25.4558	25.3545	25.1461	24.9326	0.0504	0.1013
##	768	BRIGHT	24.9158	24.6546	24.1205	23.5586	22.8694	22.5552	0.5341	0.5619
##	769	FAINT	28.7130	27.2050	26.0268	25.5257	25.2406	25.0302	1.1782	0.5011
##	770	BRIGHT	23.0820	21.8536	21.2260	20.8811	20.6910	20.5125	0.6276	0.3449
##	771	BRIGHT	26.2769	26.0296	25.1024	24.8189	24.5930	24.6789	0.9272	0.2835
##	772	FAINT	26.5944	26.5918	26.1139	25.9309	25.9006	27.0051	0.4779	0.1830
##	773	BRIGHT	25.0702	24.2162	23.3516	23.1184	22.8794	22.7804	0.8646	0.2332
##	774	FAINT	28.5514	27.8474	26.8164	25.0289	24.2560	23.3862	1.0310	1.7875
##	775	FAINT	27.4436	27.5904	27.5729	26.5546	26.3239	26.9693	0.0175	1.0183
##	776	FAINT	27.2312	26.5164	26.1476	26.1232	25.6657	28.1914	0.3688	0.0244
##	777	FAINT	28.4791	28.3536	27.2811	26.9559	26.8652	27.1983	1.0725	0.3252
##	778	BRIGHT	28.2548	27.2703	25.7738	24.6697	23.9836	23.7116	1.4965	1.1041
##	779	FAINT	28.7975	28.0722	26.5327	25.1567	24.2840	23.3888	1.5395	1.3760
##	780	BRIGHT	26.0294	24.8679	23.8951	23.5356	23.2537	22.9948	0.9728	0.3595
##	781	FAINT	28.1827	28.5560	26.9267	26.3981	26.2152	25.4071	1.6293	0.5286
##	782	FAINT	27.3733	27.4616	27.6103	26.9759	26.5029	26.0879	-0.1487	0.6344
##	783	BRIGHT	27.9433	26.7587	25.9411	24.9012	24.4472	24.2167	0.8176	1.0399
##	784	BRIGHT	26.3689	25.4854	24.0475	23.6222	23.4289	23.1723	1.4379	0.4253
##	785	FAINT	25.5983	25.4544	25.3599	25.4151	25.3740	25.9791	0.0945	-0.0552
##	786	BRIGHT	26.5926	25.7011	24.8743	24.5010	24.3353	24.1178	0.8268	0.3733
##	787	FAINT	27.4126	27.5081	26.8570	25.8799	25.9490	25.5199	0.6511	0.9771
##	788	FAINT	26.2324	26.5076	26.4010	25.9595	25.5844	24.8432	0.1066	0.4415
##	789	FAINT	27.4705	27.1082	26.2692	25.8760	25.8190	26.1706	0.8390	0.3932
##	790	BRIGHT	25.8021	24.8071	23.9116	23.6134	23.3923	23.3438	0.8955	0.2982
##	791	BRIGHT	25.8944	25.3133	24.9336	24.7141	24.6091	24.8702	0.3797	0.2195
##	792	BRIGHT	26.1081	25.6966	24.7463	24.2345	24.0246	23.9258	0.9503	0.5118
##	793	FAINT	26.8424	26.8126	26.6439	26.7884	26.9223	26.8273	0.1687	-0.1445
##	794	BRIGHT	25.9159	25.5547	24.9184	24.2610	23.7302	23.4796	0.6363	0.6574
##	795	FAINT	27.8035	27.3554	26.7106	26.2154	26.0957	25.4892	0.6448	0.4952
##	796	FAINT	27.8094	27.6105	27.1544	26.6892	26.2200	25.5422	0.4561	0.4652
##	797	FAINT	29.8832	28.2209	28.0881	26.7137	26.2103	26.9049	0.1328	1.3744
##	798	FAINT	28.8852	27.7260	27.1473	26.2552	25.9114	26.7082	0.5787	0.8921
##	799	FAINT	28.1386	27.5976	27.0436	26.6854	26.6067	25.8586	0.5540	0.3582
##	800	BRIGHT	26.2652	25.6942	24.8527	24.0960	23.2645	22.7420	0.8415	0.7567
##	801	BRIGHT	26.6181	26.3253	25.1227	24.8906	24.7495	24.6070	1.2026	0.2321
##	802	FAINT	26.7327	27.2942	26.4775	25.6340	25.4055	25.1346	0.8167	0.8435
##	803	FAINT	28.0317	28.6924	27.5428	26.8557	26.4794	27.8476	1.1496	0.6871
##	804	FAINT	29.3944	27.9080	27.4128	25.5085	24.9029	23.9331	0.4952	1.9043
##	805	FAINT	29.0179	29.5258	27.4417	26.4034	25.4697	25.0811	2.0841	1.0383
##	806	FAINT	28.1807	28.1373	27.1585	26.8917	26.7597	26.4737	0.9788	0.2668
##	807	FAINT	27.5455	28.3773	27.2858	26.6989	26.0581	25.5398	1.0915	0.5869
##	808	FAINT	28.2762	27.6864	26.9354	25.9274	25.0444	24.5315	0.7510	1.0080
##	809	BRIGHT	24.7724	24.0567	23.2628	23.0076	22.8031	22.7278	0.7939	0.2552

##	810	BRIGHT	26.7355	26.3366	25.0203	24.4978	24.2311	23.9471	1.3163	0.5225
##	811	FAINT	26.2352	25.7467	25.4683	25.0718	24.5965	24.1116	0.2784	0.3965
##	812	FAINT	26.7398	26.7200	26.8981	26.5635	27.3971	26.7306	-0.1781	0.3346
##	813	BRIGHT	24.1342	23.1664	21.8972	21.3238	21.0251	20.8116	1.2692	0.5734
##	814	FAINT	26.6927	27.1312	26.3949	26.0334	25.6009	26.1640	0.7363	0.3615
##	815	BRIGHT	24.1264	22.5053	21.1854	20.6748	20.3862	20.1718	1.3199	0.5106
##	816	FAINT	29.8482	28.5203	27.4654	26.6239	26.9109	28.0026	1.0549	0.8415
##	817	FAINT	28.3169	27.6915	27.3250	26.8882	26.4065	25.7291	0.3665	0.4368
##	818	BRIGHT	28.5031	27.3456	25.7321	24.8915	24.4738	24.2431	1.6135	0.8406
##	819	FAINT	27.7736	26.4277	25.9133	25.5489	25.0028	24.2262	0.5144	0.3644
##	820	BRIGHT	26.5527	25.9201	25.4569	24.8000	24.4665	24.3808	0.4632	0.6569
##	821	FAINT	29.5539	27.2447	26.3646	25.8458	25.7528	25.3403	0.8801	0.5188
##	822	BRIGHT	24.5544	23.6987	23.3385	23.1336	23.0879	23.0394	0.3602	0.2049
##	823	FAINT	28.9012	28.5700	27.1297	26.9313	27.2705	26.4141	1.4403	0.1984
##	824	BRIGHT	25.0233	24.4147	23.0338	22.0240	21.2965	21.0033	1.3809	1.0098
##	825	BRIGHT	26.3696	26.2757	25.2217	24.3862	24.2057	24.0928	1.0540	0.8355
##	826	BRIGHT	25.0938	23.4788	21.9935	20.9463	20.5793	20.2627	1.4853	1.0472
##	827	FAINT	29.7791	28.2584	27.2820	26.6169	27.0076	26.0568	0.9764	0.6651
##	828	BRIGHT	25.5522	24.8686	24.3449	24.2009	24.0831	24.0799	0.5237	0.1440
##	829	FAINT	30.3310	28.8665	27.7019	26.9887	26.3040	26.0218	1.1646	0.7132
##	830	FAINT	27.5183	26.3577	26.0194	25.5855	25.0024	24.7623	0.3383	0.4339
##	831	FAINT	26.5594	26.9035	26.0912	25.3296	25.2193	25.2240	0.8123	0.7616
##	832	BRIGHT	24.8167	24.0351	23.3940	23.2290	23.0202	23.0578	0.6411	0.1650
##	833	BRIGHT	25.2073	25.0366	24.3394	23.5194	23.0463	22.9388	0.6972	0.8200
##	834	FAINT	29.6790	28.5377	27.6517	26.8324	26.9125	28.4815	0.8860	0.8193
##	835	BRIGHT	26.9319	25.8755	24.5532	23.5884	23.2927	23.0469	1.3223	0.9648
##	836	FAINT	27.6088	27.1341	26.6044	25.8334	25.4546	25.2727	0.5297	0.7710
##	837	BRIGHT	26.4426	24.9453	23.2420	21.9423	21.4435	21.0509	1.7033	1.2997
##	838	FAINT	29.3577	27.9935	27.2049	26.7411	26.6078	26.6299	0.7886	0.4638
##	839	BRIGHT	23.5436	23.0393	22.1155	21.4071	21.2047	20.9997	0.9238	0.7084
##	840	FAINT	26.9547	27.3115	26.9594	26.8531	26.3067	26.4064	0.3521	0.1063
##	841	FAINT	26.4925	26.8121	26.0499	25.6012	25.5388	25.4938	0.7622	0.4487
##	842	FAINT	26.0287	26.2472	25.9212	25.8124	25.9006	27.4840	0.3260	0.1088
##	843	BRIGHT	26.7255	25.9846	25.2791	24.8494	24.7546	24.4863	0.7055	0.4297
##	844	FAINT	27.2143	26.9368	26.7010	25.8982	25.9076	25.1857	0.2358	0.8028
##	845	FAINT	28.1400	27.3496	26.6537	26.4233	26.4724	27.1668	0.6959	0.2304
##	846	BRIGHT	27.4525	27.0121	25.6109	24.9863	24.7131	24.4749	1.4012	0.6246
##	847	FAINT	27.5361	27.9712	27.6643	26.9894	26.3135	25.8121	0.3069	0.6749
##	848	FAINT	30.1824	28.5213	27.6915	26.3552	26.3407	26.1702	0.8298	1.3363
##	849	FAINT	26.9452	26.3059	25.5264	25.2507	25.0267	24.8298	0.7795	0.2757
##	850	FAINT	28.4075	27.1414	26.9242	26.5714	26.4399	25.1770	0.2172	0.3528
##	851	FAINT	27.2630	26.2672	25.5703	25.3097	25.0801	24.9174	0.6969	0.2606
##	852	BRIGHT	32.7086	26.4397	25.0351	24.6717	24.4696	24.4534	1.4046	0.3634
##	853	BRIGHT	26.8276	26.4237	25.3800	24.3315	24.0352	23.9359	1.0437	1.0485
##	854	BRIGHT	25.1567	24.3907	22.9699	21.9316	21.5355	21.1897	1.4208	1.0383
##	855	BRIGHT	26.6489	25.8602	25.0554	24.5719	24.4030	23.9470	0.8048	0.4835
##	856	BRIGHT	25.9108	25.5931	24.7475	23.7250	23.3021	23.1534	0.8456	1.0225
##	857	BRIGHT	26.2346	25.7475	25.1161	24.2872	23.7775	23.0090	0.6314	0.8289
##	858	BRIGHT	25.5733	24.8879	23.9127	23.5579	23.4414	23.0124	0.9752	0.3548
##	859	BRIGHT	25.5478	25.2481	24.7153	24.2121	23.5765	23.2045	0.5328	0.5032
##	860	FAINT	27.3804	26.5709	26.4449	26.0284	25.6131	25.3837	0.1260	0.4165
##	861	FAINT	27.9360	27.0701	26.4170	25.5389	24.6874	23.8475	0.6531	0.8781
##	862	BRIGHT	21.9722	20.5482	19.2293	18.7054	18.4347	18.1962	1.3189	0.5239
##	863	FAINT	27.4759	26.9354	25.8489	25.0233	24.1742	23.9280	1.0865	0.8256
##	864	FAINT	27.7327	27.7697	27.0539	26.4928	26.0763	25.7696	0.7158	0.5611
##	865	FAINT	31.8332	27.9320	27.0242	25.8032	25.3267	24.9874	0.9078	1.2210
##	866	BRIGHT	26.4260	26.2525	25.6396	24.9397	24.4922	24.6369	0.6129	0.6999
##	867	BRIGHT	26.6427	26.2199	25.5141	24.9918	24.8732	24.9867	0.7058	0.5223
##	868	FAINT	25.8257	26.0866	25.9088	26.0530	25.8923	25.7783	0.1778	-0.1442
##	869	FAINT	26.5660	26.4342	26.4191	26.2247	26.0092	25.4375	0.0151	0.1944
##	870	FAINT	27.6686	27.0220	26.8758	26.7332	26.6972	26.0247	0.1462	0.1426
##	871	FAINT	30.0829	28.6000	27.3384	25.5883	24.4321	23.7244	1.2616	1.7501
##	872	FAINT	29.2309	27.4021	26.6628	25.3637	24.8371	24.2408	0.7393	1.2991
##	873	FAINT	27.3503	27.5931	26.8709	26.0587	26.1847	25.8477	0.7222	0.8122
##	874	BRIGHT	24.8263	24.2837	23.1998	22.3431	22.0554	21.7264	1.0839	0.8567
##	875	FAINT	28.7335	28.2178	27.6009	26.8691	26.6352	26.7683	0.6169	0.7318
##	876	BRIGHT	25.0087	24.3866	23.3178	22.2682	21.7539	21.4374	1.0688	1.0496
##	877	FAINT	27.1923	27.2328	26.5064	25.6545	25.3454	25.8039	0.7264	0.8519
##	878	FAINT	29.2898	28.7567	28.2962	26.8806	25.9478	25.8033	0.4605	1.4156
##	879	FAINT	28.0745	27.5201	27.3510	26.7355	27.3968	28.1622	0.1691	0.6155
##	880	BRIGHT	25.2339	25.1736	24.7621	24.0571	23.8218	23.7901	0.4115	0.7050
##	881	BRIGHT	28.1250	25.7418	24.8291	24.4826	24.2138	24.0651	0.9127	0.3465
##	882	FAINT	26.2840	26.6206	26.7324	26.5684	28.2541	30.6207	-0.1118	0.1640
##	883	FAINT	25.9049	26.0664	25.8510	25.4694	25.2737	25.2212	0.2154	0.3816
##	884	FAINT	28.3228	28.1346	27.1668	26.7707	26.5065	25.9408	0.9678	0.3961
##	885	FAINT	28.3836	27.3110	26.8683	26.5563	25.7521	26.8088	0.4427	0.3120
##	886	FAINT	31.6187	28.4729	28.1338	26.9063	27.0378	26.2216	0.3391	1.2275
##	887	BRIGHT	26.6915	26.0478	25.1444	24.7347	24.5526	24.3025	0.9034	0.4097
##	888	FAINT	28.1822	27.0771	26.1748	25.0914	24.7942	24.3203	0.9023	1.0834

##	889	FAINT	27.5875	27.0131	26.6877	26.3224	25.9569	25.2696	0.3254	0.3653
##	890	FAINT	27.8976	26.9159	25.6058	25.0754	24.9848	24.5854	1.3101	0.5304
##	891	BRIGHT	28.5033	26.8434	25.5259	24.2345	23.4230	22.5275	1.3175	1.2914
##	892	BRIGHT	23.5139	22.7743	21.7418	21.3646	21.1068	21.0201	1.0325	0.3772
##	893	FAINT	27.9641	26.8856	26.0505	25.3450	24.9125	24.2459	0.8351	0.7055
##	894	FAINT	28.0921	27.5300	26.3568	25.9457	25.6424	25.8704	1.1732	0.4111
##	895	FAINT	27.7328	28.1681	27.5272	26.8816	26.4084	25.3134	0.6409	0.6456
##	896	FAINT	27.5043	27.7872	26.6563	26.2804	26.0346	25.3354	1.1309	0.3759
##	897	FAINT	28.3346	27.8762	27.5086	26.7317	26.7072	27.6692	0.3676	0.7769
##	898	FAINT	29.0427	28.0731	27.2494	26.4329	26.4171	25.4994	0.8237	0.8165
##	899	BRIGHT	22.8522	22.5335	22.4115	22.3056	22.4846	22.4306	0.1220	0.1059
##	900	FAINT	27.1549	27.1965	26.7544	25.7392	25.5200	25.1315	0.4421	1.0152
##	901	BRIGHT	26.9676	26.0431	25.1754	24.5265	24.0468	23.4532	0.8677	0.6489
##	902	FAINT	27.0301	26.6890	25.9205	25.3490	25.3099	25.0251	0.7685	0.5715
##	903	FAINT	27.6234	27.3614	26.2829	25.2983	24.5128	24.1410	1.0785	0.9846
##	904	FAINT	30.7371	27.8503	27.3798	26.8471	26.8248	26.3747	0.4705	0.5327
##	905	FAINT	29.3048	27.4602	26.9292	26.5519	26.1873	26.3582	0.5310	0.3773
##	906	FAINT	27.3801	27.7753	26.8876	26.6231	26.6192	26.5579	0.8877	0.2645
##	907	BRIGHT	27.4922	28.0786	26.0243	24.8461	24.1697	23.9380	2.0543	1.1782
##	908	FAINT	26.7987	26.5922	25.8725	25.1792	24.6877	24.5623	0.7197	0.6933
##	909	FAINT	28.2929	27.9642	26.9065	26.5152	25.8243	25.3816	1.0577	0.3913
##	910	FAINT	26.9080	26.9609	26.9182	26.8749	26.6683	28.0254	0.0427	0.0433
##	911	FAINT	26.9770	27.8803	26.5704	26.4976	26.1083	25.7437	1.3099	0.0728
##	912	FAINT	29.7004	27.4600	26.6087	25.9710	25.3120	25.0154	0.8513	0.6377
##	913	BRIGHT	25.8217	24.9512	24.0274	23.3816	23.2016	23.0146	0.9238	0.6458
##	914	FAINT	28.1371	27.6045	26.4621	26.3281	26.0957	25.9237	1.1424	0.1340
##	915	FAINT	27.4847	27.5997	26.8472	25.8682	25.5953	24.6470	0.7525	0.9790
##	916	FAINT	29.8216	28.0767	27.3490	26.9237	26.2829	26.8813	0.7277	0.4253
##	917	FAINT	28.8633	27.9993	27.3640	26.4466	26.5139	25.6836	0.6353	0.9174
##	918	BRIGHT	26.2701	25.4577	24.9667	24.8439	24.6170	24.7025	0.4910	0.1228
##	919	FAINT	27.3748	26.9595	26.9154	26.8387	27.5289	26.0913	0.0441	0.0767
##	920	FAINT	30.0065	28.1578	27.8777	26.6363	26.6913	26.4959	0.2801	1.2414
##	921	BRIGHT	25.4671	25.0435	24.4404	24.3104	24.1228	24.0079	0.6031	0.1300
##	922	FAINT	27.1594	27.1026	27.0433	26.8484	26.9951	26.6852	0.0593	0.1949
##	923	FAINT	28.2363	28.1204	26.8867	26.8951	26.4007	30.4246	1.2337	-0.0084
##	924	FAINT	28.0212	28.4613	28.0045	26.9030	26.5852	25.9077	0.4568	1.1015
##	925	FAINT	29.1333	27.6307	27.2821	26.9606	26.4810	26.0335	0.3486	0.3215
##	926	FAINT	27.5227	26.9759	27.0141	26.7072	26.1868	25.2045	-0.0382	0.3069
##	927	BRIGHT	26.1759	25.5659	24.5481	23.5837	23.0575	22.8166	1.0178	0.9644
##	928	BRIGHT	25.8162	24.1463	22.5500	21.9055	21.5650	21.3220	1.5963	0.6445
##	929	FAINT	26.3834	26.0173	25.4708	25.4021	25.2541	25.6241	0.5465	0.0687
##	930	BRIGHT	24.7910	23.8394	22.9218	22.6137	22.3523	22.2430	0.9176	0.3081
##	931	FAINT	28.4686	27.2754	26.5292	26.0732	26.1278	26.6142	0.7462	0.4560
##	932	FAINT	28.1207	25.8373	25.2426	25.0194	24.7241	24.7020	0.5947	0.2232
##	933	FAINT	28.5592	29.1221	28.2729	26.6667	24.8978	24.1125	0.8492	1.6062
##	934	BRIGHT	23.5474	22.8524	22.1509	21.7511	21.5722	21.3584	0.7015	0.3998
##	935	FAINT	29.8093	27.5605	26.8323	26.0645	25.6580	25.5062	0.7282	0.7678
##	936	FAINT	27.6795	27.9106	26.5724	25.5604	24.7535	24.5098	1.3382	1.0120
##	937	FAINT	27.7503	28.3505	27.5745	26.1171	25.3955	24.7962	0.7760	1.4574
##	938	FAINT	26.8756	26.8067	25.9306	25.3676	25.0710	24.6545	0.8761	0.5630
##	939	FAINT	29.4741	28.2652	26.9630	25.7160	24.8815	24.1355	1.3022	1.2470
##	940	BRIGHT	26.5651	25.8880	24.1063	22.9111	22.2089	21.8995	1.7817	1.1952
##	941	FAINT	28.5278	27.9673	27.2502	26.5589	26.0250	25.3197	0.7171	0.6913
##	942	FAINT	28.2986	27.5282	26.9559	26.3842	25.5904	25.4366	0.5723	0.5717
##	943	FAINT	27.9255	27.5264	26.9225	26.1558	25.6218	24.8806	0.6039	0.7667
##	944	BRIGHT	25.1041	24.9402	24.7462	24.5402	24.0727	23.9284	0.1940	0.2060
##	945	FAINT	27.8027	27.2596	26.7656	26.3881	25.8937	25.5823	0.4940	0.3775
##	946	BRIGHT	25.5045	25.1961	24.6221	23.9910	23.8359	23.7205	0.5740	0.6311
##	947	BRIGHT	27.0675	26.0291	24.4856	23.3253	22.9427	22.6510	1.5435	1.1603
##	948	FAINT	26.6503	27.1454	27.0175	26.6418	27.1898	26.1395	0.1279	0.3757
##	949	FAINT	27.6047	27.5442	26.6069	25.5461	24.6362	24.1733	0.9373	1.0608
##	950	FAINT	29.1670	28.0650	26.8117	25.9146	25.3086	25.2307	1.2533	0.8971
##	951	BRIGHT	26.0878	25.4006	24.5787	24.1394	23.4483	23.0876	0.8219	0.4393
##	952	FAINT	26.6360	26.2411	26.2814	26.0110	25.8878	26.0179	-0.0403	0.2704
##	953	FAINT	27.8904	27.7616	26.9194	26.3221	25.4564	25.4678	0.8422	0.5973
##	954	BRIGHT	27.2204	26.4000	25.1392	24.7187	24.4504	24.3029	1.2608	0.4205
##	955	FAINT	28.4854	27.9453	27.2362	26.8386	26.5119	27.4465	0.7091	0.3976
##	956	FAINT	29.4419	27.7413	27.6209	26.9928	26.2442	26.2096	0.1204	0.6281
##	957	FAINT	28.6182	27.4549	26.6721	26.3231	25.9429	26.0210	0.7828	0.3490
##	958	FAINT	28.1718	27.8915	27.4085	26.6040	26.3446	26.2513	0.4830	0.8045
##	959	FAINT	27.6467	27.4015	26.3680	25.6145	24.9030	24.2496	1.0335	0.7535
##	960	FAINT	26.3310	26.2782	25.6684	25.3369	25.2994	25.4659	0.6098	0.3315
##	961	BRIGHT	27.0936	25.7388	25.0571	24.8147	24.4654	24.4935	0.6817	0.2424
##	962	BRIGHT	25.9136	24.8721	23.6980	23.1855	22.9227	22.6866	1.1741	0.5125
##	963	BRIGHT	25.6487	24.7713	24.1127	23.6871	23.4005	23.1601	0.6586	0.4256
##	964	FAINT	25.7904	25.6783	25.2574	25.1769	24.9350	25.2040	0.4209	0.0805
##	965	BRIGHT	25.4057	25.0154	23.9523	23.5918	23.3719	23.1612	1.0631	0.3605
##	966	BRIGHT	27.0446	27.2423	25.8073	24.5296	23.6977	22.8906	1.4350	1.2777
##	967	BRIGHT	20.8892	19.8159	18.8261	18.3960	18.1257	17.9239	0.9898	0.4301

##	968	FAINT	26.8360	26.7802	26.1193	25.4480	25.2279	25.1603	0.6609	0.6713
##	969	FAINT	27.0849	27.0497	26.3855	26.4199	25.9424	26.4287	0.6642	-0.0344
##	970	BRIGHT	27.0405	25.8376	25.0096	24.9142	24.7175	24.6214	0.8280	0.0954
##	971	FAINT	27.5451	27.2699	26.1669	25.1309	24.4417	23.6727	1.1030	1.0360
##	972	FAINT	26.1803	26.3863	26.0092	25.9053	25.7878	25.3236	0.3771	0.1039
##	973	FAINT	27.0688	26.4723	25.6056	25.4008	25.1024	25.2592	0.8667	0.2048
##	974	FAINT	27.0767	26.9374	26.4109	25.4828	25.3905	25.2106	0.5265	0.9281
##	975	BRIGHT	26.1286	25.6004	24.8365	24.2398	23.4643	22.9760	0.7639	0.5967
##	976	FAINT	28.6244	27.2021	27.1909	26.9616	26.7886	26.3178	0.0112	0.2293
##	977	BRIGHT	28.5264	29.0793	26.7805	24.9282	24.2864	23.1842	2.2988	1.8523
##	978	FAINT	27.4267	26.9516	26.0637	25.8447	25.6259	25.3037	0.8879	0.2190
##	979	BRIGHT	26.6701	25.5581	24.1179	22.9155	22.1831	21.7885	1.4402	1.2024
##	980	FAINT	30.2787	28.0800	27.1175	26.2252	25.8406	25.7506	0.9625	0.8923
##	981	FAINT	31.3114	27.7224	26.6402	25.0342	24.2386	23.5013	1.0822	1.6060
##	982	FAINT	27.0560	26.7343	26.2941	25.8899	25.6857	25.7047	0.4402	0.4042
##	983	BRIGHT	28.7477	27.5670	26.5229	24.8451	24.2077	23.2814	1.0441	1.6778
##	984	BRIGHT	25.2208	24.2195	22.8920	22.3715	22.0924	21.7066	1.3275	0.5205
##	985	FAINT	27.8423	27.2674	26.5028	25.7873	25.5238	25.1246	0.7646	0.7155
##	986	BRIGHT	28.5562	27.2952	26.1278	24.3005	23.5297	22.6721	1.1674	1.8273
##	987	FAINT	27.2871	26.9500	25.9689	25.6278	25.4632	25.5831	0.9811	0.3411
##	988	FAINT	28.1906	27.3883	26.7119	25.8607	25.5369	25.1088	0.6764	0.8512
##	989	FAINT	27.2309	28.0686	28.0228	26.9225	27.0344	28.0196	0.0458	1.1003
##	990	FAINT	26.9273	26.5784	25.8582	25.6874	25.4607	25.4031	0.7202	0.1708
##	991	FAINT	27.7543	27.3331	27.8330	26.9814	27.1438	26.9606	-0.4999	0.8516
##	992	FAINT	26.6575	26.3304	25.7638	25.1764	24.9268	24.9167	0.5666	0.5874
##	993	FAINT	29.6965	27.8352	27.3655	26.5268	26.2523	25.7013	0.4697	0.8387
##	994	FAINT	29.5036	26.9561	25.9963	25.7911	25.8017	25.3763	0.9598	0.2052
##	995	FAINT	28.9546	27.9102	27.1523	26.5219	25.6163	24.8992	0.7579	0.6304
##	996	FAINT	27.3092	27.7668	27.4397	26.8054	26.0046	25.7275	0.3271	0.6343
##	997	BRIGHT	24.5808	24.2156	23.4343	22.5829	22.2728	21.9925	0.7813	0.8514
##	998	FAINT	27.8590	26.7919	25.5675	25.1847	24.8764	24.5861	1.2244	0.3828
##	999	FAINT	26.5717	26.6989	26.4787	26.4573	25.7646	25.8764	0.2202	0.0214
##	1000	FAINT	27.0173	26.7209	25.9491	25.0990	24.5396	24.3601	0.7718	0.8501
##	1001	FAINT	26.0130	26.5078	26.1907	25.6331	25.3485	26.3141	0.3171	0.5576
##	1002	FAINT	27.8791	27.4359	26.6469	26.2544	26.3818	25.8389	0.7890	0.3925
##	1003	BRIGHT	24.7781	24.4027	23.5786	23.2333	23.1067	22.7271	0.8241	0.3453
##	1004	FAINT	27.7295	26.8582	25.9123	25.6505	25.3872	25.3876	0.9459	0.2618
##	1005	FAINT	25.8433	25.9923	25.6318	25.7600	25.4077	26.2693	0.3605	-0.1282
##	1006	FAINT	26.6566	26.6005	26.0954	25.4378	24.9206	23.9828	0.5051	0.6576
##	1007	FAINT	27.7097	26.9500	26.2233	25.5266	25.4894	25.3358	0.7267	0.6967
##	1008	BRIGHT	25.8134	23.8655	22.5429	22.0566	21.7635	21.5315	1.3226	0.4863
##	1009	FAINT	28.1337	26.5828	25.7676	25.0622	24.3818	24.0641	0.8152	0.7054
##	1010	FAINT	26.8252	26.0072	25.2992	25.0447	24.7891	24.9621	0.7080	0.2545
##	1011	FAINT	29.5209	30.2247	27.7976	26.8380	26.6534	25.6335	2.4271	0.9596
##	1012	FAINT	26.3328	26.4055	25.8555	25.0811	24.7878	24.5614	0.5500	0.7744
##	1013	FAINT	27.0315	26.5995	26.4633	26.5882	26.5770	25.8336	0.1362	-0.1249
##	1014	FAINT	28.5384	27.5112	26.9729	26.0359	25.9030	29.8221	0.5383	0.9370
##	1015	FAINT	27.2144	26.9876	26.8336	26.3711	26.2255	25.0637	0.1540	0.4625
##	1016	FAINT	29.5502	29.9491	27.2302	26.4528	25.5241	25.0168	2.7189	0.7774
##	1017	BRIGHT	26.0161	25.2077	23.6410	22.4096	21.7195	21.3979	1.5667	1.2314
##	1018	FAINT	27.3197	27.5605	26.9522	26.2348	25.9304	25.3735	0.6083	0.7174
##	1019	FAINT	28.1056	28.8376	27.4621	26.7955	26.9424	26.1860	1.3755	0.6666
##	1020	FAINT	28.4598	27.3190	25.9426	25.3607	24.9951	24.7885	1.3764	0.5819
##	1021	FAINT	27.6108	27.0762	26.3359	25.4621	24.9525	24.8414	0.7403	0.8738
##	1022	FAINT	29.8321	28.1310	27.4236	25.9766	25.2764	25.1947	0.7074	1.4470
##	1023	FAINT	27.1536	27.0286	26.7804	26.3718	26.5586	25.7685	0.2482	0.4086
##	1024	FAINT	28.4115	27.4525	27.3404	26.2638	25.8509	26.7284	0.1121	1.0766
##	1025	FAINT	26.8878	26.3995	25.7862	25.3648	25.3439	25.2032	0.6133	0.4214
##	1026	FAINT	27.7549	27.9517	27.3852	26.6263	25.8731	24.9765	0.5665	0.7589
##	1027	FAINT	28.8762	28.1676	26.7636	25.5624	24.6836	23.8425	1.4040	1.2012
##	1028	BRIGHT	22.6595	22.2776	21.3945	20.5895	20.3141	20.0662	0.8831	0.8050
##	1029	BRIGHT	26.6141	24.5480	23.0186	22.0638	21.7068	21.4656	1.5294	0.9548
##	1030	FAINT	28.2485	27.3536	26.9332	26.5154	25.6698	25.1939	0.4204	0.4178
##	1031	BRIGHT	25.9591	25.6078	25.1194	24.4229	24.1146	23.9942	0.4884	0.6965
##	1032	FAINT	28.1049	27.8367	27.3322	26.7066	26.3729	25.6862	0.5045	0.6256
##	1033	FAINT	26.6636	26.6479	26.6058	26.6498	26.6806	26.9392	0.0421	-0.0440
##	1034	FAINT	28.0838	28.3388	27.3465	26.8946	25.8892	26.5857	0.9923	0.4519
##	1035	BRIGHT	28.5199	27.0826	25.3650	24.4086	23.4572	22.9378	1.7176	0.9564
##	1036	BRIGHT	23.4252	22.8090	21.6126	20.9407	20.6300	20.2282	1.1964	0.6719
##	1037	BRIGHT	24.0102	23.8286	23.8481	23.7495	24.0811	24.1969	-0.0195	0.0986
##	1038	BRIGHT	25.3133	23.8682	22.5600	22.1315	21.7990	21.6985	1.3082	0.4285
##	1039	FAINT	27.3229	27.0764	26.4992	26.0250	25.6089	25.2248	0.5772	0.4742
##	1040	BRIGHT	25.1816	24.4785	23.6485	23.1394	22.4800	22.2677	0.8300	0.5091
##	1041	FAINT	30.6988	28.0939	27.5877	26.9142	27.2924	25.7565	0.5062	0.6735
##	1042	FAINT	29.9305	28.1584	26.8366	25.9579	25.5700	25.3913	1.3218	0.8787
##	1043	FAINT	28.6970	27.7282	26.8375	25.7516	25.0081	24.0774	0.8907	1.0859
##	1044	BRIGHT	25.8414	25.7672	25.1564	24.8765	24.8306	24.0975	0.6108	0.2799
##	1045	FAINT	28.6152	27.2537	27.0937	26.6255	27.0073	25.7501	0.1600	0.4682
##	1046	FAINT	27.0330	26.9778	27.0553	26.5535	26.5571	26.2758	-0.0775	0.5018

##	1047	FAINT	27.0728	27.2483	26.5575	25.9440	25.3859	24.7465	0.6908	0.6135
##	1048	BRIGHT	21.4308	19.7659	18.7135	18.2024	17.8596	17.5959	1.0524	0.5111
##	1049	BRIGHT	26.4894	25.5439	24.7089	24.5622	24.4232	24.4153	0.8350	0.1467
##	1050	FAINT	26.9507	26.5685	26.5305	26.2255	26.7447	26.0828	0.0380	0.3050
##	1051	BRIGHT	22.8712	22.6676	21.9058	21.1129	20.7966	20.5253	0.7618	0.7929
##	1052	FAINT	28.6707	27.2039	26.6301	26.5520	26.1853	25.5773	0.5738	0.0781
##	1053	FAINT	27.5867	27.5012	27.2461	26.7046	26.1760	25.8097	0.2551	0.5415
##	1054	FAINT	26.7352	26.6880	25.8080	25.0199	24.4484	24.1511	0.8800	0.7881
##	1055	FAINT	27.8056	27.7887	27.2355	26.5399	26.5911	26.1134	0.5532	0.6956
##	1056	BRIGHT	25.5080	25.4054	24.9194	24.8168	24.7115	24.2578	0.4860	0.1026
##	1057	FAINT	28.3717	27.6114	26.5284	26.0165	26.1128	25.1158	1.0830	0.5119
##	1058	BRIGHT	24.3672	24.0456	23.4118	23.2418	23.1321	23.0168	0.6338	0.1700
##	1059	FAINT	28.2354	26.6553	26.7646	26.6459	25.8783	25.8988	-0.1093	0.1187
##	1060	FAINT	31.6250	28.0017	27.5192	26.8908	26.2438	25.5523	0.4825	0.6284
##	1061	FAINT	28.8803	32.4159	27.5362	26.5724	25.8970	25.4910	4.8797	0.9638
##	1062	BRIGHT	27.2309	26.6674	25.2022	24.7844	24.4458	24.1377	1.4652	0.4178
##	1063	FAINT	27.6577	27.8978	27.4446	26.6825	25.7474	25.7318	0.4532	0.7621
##	1064	FAINT	27.6374	27.3490	26.3954	25.3706	24.7502	24.2731	0.9536	1.0248
##	1065	FAINT	26.3658	26.2564	25.6585	25.2327	24.4232	24.0420	0.5979	0.4258
##	1066	FAINT	28.4813	28.3435	27.1546	26.6749	26.4884	25.3819	1.1889	0.4797
##	1067	BRIGHT	26.0791	24.2064	22.1092	20.8366	20.0221	19.6177	2.0972	1.2726
##	1068	BRIGHT	26.8375	26.3792	25.5910	24.9598	24.1686	23.9280	0.7882	0.6312
##	1069	FAINT	28.3410	27.3158	27.0307	26.1980	25.9307	25.5524	0.2851	0.8327
##	1070	BRIGHT	27.5513	27.2681	25.5620	24.2250	23.4166	22.5115	1.7061	1.3370
##	1071	BRIGHT	25.5154	25.1425	24.7472	24.5544	24.4817	24.5277	0.3953	0.1928
##	1072	FAINT	27.4240	26.7780	25.6747	25.2270	25.1376	25.0817	1.1033	0.4477
##	1073	BRIGHT	25.8016	25.2545	24.8000	24.4719	23.9130	23.5319	0.4545	0.3281
##	1074	BRIGHT	25.2810	25.1305	25.1042	24.7267	24.2680	23.6350	0.0263	0.3775
##	1075	BRIGHT	23.6315	22.7992	22.0396	21.7514	21.5451	21.4675	0.7596	0.2882
##	1076	FAINT	27.5515	26.6854	25.8685	25.1122	24.8813	24.7895	0.8169	0.7563
##	1077	FAINT	27.5271	27.4628	27.1042	26.9139	28.3623	26.0881	0.3586	0.1903
##	1078	FAINT	27.4532	27.1903	26.9323	26.7705	26.0566	26.2708	0.2580	0.1618
##	1079	FAINT	28.7642	28.7022	28.2134	26.8639	25.9274	25.2145	0.4888	1.3495
##	1080	FAINT	27.6945	28.7421	26.2012	25.1860	24.3118	24.0304	2.5409	1.0152
##	1081	FAINT	28.1628	28.4995	27.1097	26.6386	26.2699	25.8193	1.3898	0.4711
##	1082	FAINT	28.9102	27.1321	27.1045	26.2382	26.2747	27.1496	0.0276	0.8663
##	1083	FAINT	27.0205	26.3726	25.6060	25.0317	24.8894	24.9603	0.7666	0.5743
##	1084	FAINT	27.6996	27.5314	26.8269	26.5025	26.9689	26.2307	0.7045	0.3244
##	1085	BRIGHT	27.2302	26.7082	25.3091	24.2956	23.9445	23.6784	1.3991	1.0135
##	1086	FAINT	26.9305	26.3064	25.4537	25.3460	25.1903	25.4444	0.8527	0.1077
##	1087	FAINT	26.9191	26.6196	26.0329	26.0762	25.9549	25.9960	0.5867	-0.0433
##	1088	BRIGHT	24.4244	23.9520	23.1240	22.6027	22.4460	22.2018	0.8280	0.5213
##	1089	FAINT	29.2947	27.5059	27.0765	26.7614	26.6889	26.4570	0.4294	0.3151
##	1090	FAINT	26.9929	26.6055	25.9407	25.8250	25.7664	26.0235	0.6648	0.1157
##	1091	FAINT	27.1417	27.5767	26.9106	26.1939	26.1822	26.6974	0.6661	0.7167
##	1092	BRIGHT	25.6214	25.1474	24.3441	23.8476	23.6060	23.4856	0.8033	0.4965
##	1093	BRIGHT	25.3531	24.9476	24.4093	23.7804	23.0844	22.4442	0.5383	0.6289
##	1094	FAINT	27.2043	28.0166	27.2312	26.7575	25.6873	25.8999	0.7854	0.4737
##	1095	BRIGHT	26.4904	26.5719	25.2324	24.3659	23.4532	22.8742	1.3395	0.8665
##	1096	BRIGHT	24.9942	24.7503	24.0153	23.3181	23.0278	22.8343	0.7350	0.6972
##	1097	FAINT	28.0601	26.8715	25.9676	25.6915	25.5456	25.3928	0.9039	0.2761
##	1098	FAINT	27.7140	26.6808	25.9639	25.8638	25.5480	25.1648	0.7169	0.1001
##	1099	FAINT	26.5875	26.3540	25.6817	25.3380	25.2877	24.9139	0.6723	0.3437
##	1100	BRIGHT	25.9238	25.1753	24.2121	23.7366	23.5358	23.2930	0.9632	0.4755
##	1101	FAINT	28.8186	28.3419	27.3441	26.2045	25.8378	25.8308	0.9978	1.1396
##	1102	BRIGHT	27.3532	26.1935	25.3540	24.8196	24.6365	24.6373	0.8395	0.5344
##	1103	FAINT	27.6516	27.6242	26.2980	25.5656	25.3320	24.9606	1.3262	0.7324
##	1104	BRIGHT	25.3921	25.0221	24.3084	23.6781	23.5195	23.4034	0.7137	0.6303
##	1105	FAINT	29.3456	26.6850	25.5811	25.3808	25.2241	25.0757	1.1039	0.2003
##	1106	FAINT	28.5359	29.0016	27.8531	26.9127	26.0870	26.6442	1.1485	0.9404
##	1107	FAINT	26.9212	26.7210	26.2035	25.7279	25.0003	24.5723	0.5175	0.4756
##	1108	BRIGHT	28.0761	26.8495	25.5676	24.5509	23.8386	23.5345	1.2819	1.0167
##	1109	FAINT	27.6656	26.4458	25.6952	25.5364	25.2538	24.9789	0.7506	0.1588
##	1110	FAINT	28.7968	27.6417	27.2591	26.4968	26.1167	26.6762	0.3826	0.7623
##	1111	FAINT	28.3885	26.9715	25.8163	25.4449	25.4347	25.2010	1.1552	0.3714
##	1112	FAINT	29.8697	28.5748	27.9870	26.6147	26.4173	27.1825	0.5878	1.3723
##	1113	FAINT	27.5136	26.5784	25.9304	25.0173	24.8714	24.8304	0.6480	0.9131
##	1114	BRIGHT	25.9831	25.1011	24.2245	23.6268	22.9069	22.6049	0.8766	0.5977
##	1115	FAINT	27.0308	27.2674	26.9191	26.5552	26.1984	25.8920	0.3483	0.3639
##	1116	FAINT	30.8000	28.3462	28.5258	26.8099	26.8802	26.0822	-0.1796	1.7159
##	1117	FAINT	29.2617	28.6062	27.0103	26.3020	26.0907	25.9953	1.5959	0.7083
##	1118	FAINT	29.3329	28.7301	27.6525	26.3381	25.5919	24.4784	1.0776	1.3144
##	1119	BRIGHT	25.5952	25.1032	24.5504	24.3863	24.2576	24.1668	0.5528	0.1641
##	1120	BRIGHT	26.2257	25.4972	24.7299	24.2654	23.7881	23.3349	0.7673	0.4645
##	1121	FAINT	28.8779	28.1621	26.9515	26.2760	26.4742	25.7287	1.2106	0.6755
##	1122	FAINT	27.8028	27.8071	27.5468	26.8367	28.0849	28.4970	0.2603	0.7101
##	1123	BRIGHT	23.0717	21.9049	20.5909	20.1254	19.8407	19.6622	1.3140	0.4655
##	1124	FAINT	31.4100	28.0824	27.2193	26.4504	25.6982	25.6792	0.8631	0.7689
##	1125	FAINT	29.7710	28.3363	27.2890	26.6474	26.8140	27.1269	1.0473	0.6416

##	1126	FAINT	29.2406	26.1312	25.3769	25.1562	24.9534	24.8571	0.7543	0.2207
##	1127	BRIGHT	27.2841	25.8443	24.4598	23.3943	22.9852	22.6720	1.3845	1.0655
##	1128	FAINT	26.1984	26.2792	26.4621	26.4845	26.6921	26.2758	-0.1829	-0.0224
##	1129	BRIGHT	24.6979	24.5645	24.5776	24.5089	24.1269	23.8312	-0.0131	0.0687
##	1130	FAINT	27.9928	27.6080	27.3574	26.4390	26.2061	26.7156	0.2506	0.9184
##	1131	FAINT	27.7941	27.3268	26.9310	26.0885	25.6985	25.5782	0.3958	0.8425
##	1132	BRIGHT	26.9231	25.8011	24.4791	23.9648	23.6948	23.4965	1.3220	0.5143
##	1133	FAINT	26.3842	26.3357	25.8732	25.3890	24.8286	24.6059	0.4625	0.4842
##	1134	BRIGHT	26.0527	25.7322	24.7686	23.8890	23.6355	23.3822	0.9636	0.8796
##	1135	FAINT	27.4139	26.9540	26.6390	26.0936	25.7764	26.2954	0.3150	0.5454
##	1136	FAINT	28.6722	28.0708	27.4365	26.9484	27.2050	26.2057	0.6343	0.4881
##	1137	BRIGHT	29.0754	27.6532	25.4622	24.2302	23.3034	22.4837	2.1910	1.2320
##	1138	FAINT	27.2690	27.5280	27.3621	26.8866	26.2978	25.4717	0.1659	0.4755
##	1139	FAINT	27.3895	26.8311	25.4116	25.0293	24.8242	24.4386	1.4195	0.3823
##	1140	BRIGHT	24.2291	23.9206	23.3446	22.6466	22.1788	22.0248	0.5760	0.6980
##	1141	FAINT	28.1143	29.8667	27.8097	26.6726	25.7123	25.7520	2.0570	1.1371
##	1142	BRIGHT	25.4966	24.4799	23.4746	23.1871	22.9767	22.9597	1.0053	0.2875
##	1143	BRIGHT	26.9472	25.5538	24.5799	23.5510	23.2137	23.0538	0.9739	1.0289
##	1144	FAINT	26.4580	26.8703	26.8602	26.2882	26.1718	26.6063	0.0101	0.5720
##	1145	FAINT	27.2844	27.8771	26.7798	26.5590	26.2699	25.7200	1.0973	0.2208
##	1146	FAINT	28.2832	27.6438	27.0506	26.9804	27.8274	26.9037	0.5932	0.0702
##	1147	FAINT	29.6987	27.2761	26.3724	25.3164	25.0380	25.3020	0.9037	1.0560
##	1148	FAINT	27.3026	27.3082	26.7432	26.3256	25.7703	25.4925	0.5650	0.4176
##	1149	FAINT	26.5196	25.8908	25.5154	25.4766	25.2778	25.0594	0.3754	0.0388
##	1150	FAINT	26.9910	27.5870	26.8683	26.4107	26.3781	26.3162	0.7187	0.4576
##	1151	BRIGHT	26.5481	25.7739	24.8542	24.6102	24.3396	24.1393	0.9197	0.2440
##	1152	FAINT	29.3729	27.3491	26.9672	26.6189	26.8007	25.9600	0.3819	0.3483
##	1153	BRIGHT	23.9845	23.9770	23.9016	23.8144	23.4250	23.2589	0.0754	0.0872
##	1154	BRIGHT	27.0600	26.1727	25.1359	24.6219	24.3693	24.0910	1.0368	0.5140
##	1155	BRIGHT	27.1179	25.6237	24.0721	23.2696	22.9178	22.6124	1.5516	0.8025
##	1156	BRIGHT	26.7897	26.7767	25.6713	24.7750	24.5047	24.2422	1.1054	0.8963
##	1157	FAINT	28.1221	27.9560	27.2920	26.5479	26.7864	25.8441	0.6640	0.7441
##	1158	FAINT	27.5828	27.6969	27.3345	26.7616	26.6519	26.4631	0.3624	0.5729
##	1159	BRIGHT	23.0849	22.3647	21.5473	21.2398	21.1024	20.8931	0.8174	0.3075
##	1160	FAINT	30.5658	28.8451	27.0947	26.3663	26.1394	25.9943	1.7504	0.7284
##	1161	BRIGHT	26.8852	25.4394	24.0519	23.5704	23.2818	22.9963	1.3875	0.4815
##	1162	FAINT	26.6097	26.2494	25.6449	25.6393	25.4549	25.2224	0.6045	0.0056
##	1163	FAINT	26.2415	26.2822	26.1901	26.0152	25.4798	25.2603	0.0921	0.1749
##	1164	BRIGHT	25.6044	24.6984	24.2119	23.9487	23.8812	23.7991	0.4865	0.2632
##	1165	BRIGHT	25.8261	25.4287	24.9616	24.7616	24.7573	24.6833	0.4671	0.2000
##	1166	FAINT	27.0350	26.8546	26.5669	26.7214	26.8813	26.5004	0.2877	-0.1545
##	1167	FAINT	28.2864	27.9021	27.0617	26.5709	26.8293	26.0988	0.8404	0.4908
##	1168	FAINT	26.9806	26.7420	26.2165	26.2415	26.2348	26.1845	0.5255	-0.0250
##	1169	FAINT	29.1510	27.1825	27.3961	26.6487	26.2395	25.5614	-0.2136	0.7474
##	1170	BRIGHT	25.8788	25.0606	24.0721	23.7798	23.4884	23.3434	0.9885	0.2923
##	1171	FAINT	27.4920	26.8744	26.2411	25.2890	24.7503	24.5986	0.6333	0.9521
##	1172	FAINT	28.7874	28.1474	27.9050	26.8860	26.3167	25.9501	0.2424	1.0190
##	1173	FAINT	27.2420	27.6895	26.9944	26.4856	26.5096	25.5238	0.6951	0.5088
##	1174	FAINT	28.3456	27.7762	27.6271	26.9249	26.4245	25.5740	0.1491	0.7022
##	1175	FAINT	29.2821	28.0500	27.9308	26.9529	26.6548	26.8279	0.1192	0.9779
##	1176	FAINT	28.2702	29.0302	26.9850	26.2020	25.9046	25.6699	2.0452	0.7830
##	1177	BRIGHT	28.3636	25.7552	24.1215	23.4233	23.0684	22.9054	1.6337	0.6982
##	1178	BRIGHT	28.7270	26.2015	24.5981	23.4618	23.0438	22.7295	1.6034	1.1363
##	1179	FAINT	27.8826	27.1150	27.1919	26.8325	26.5341	25.5140	-0.0769	0.3594
##	1180	FAINT	28.6880	28.1596	27.1622	26.6684	26.3379	26.4302	0.9974	0.4938
##	1181	BRIGHT	23.5382	22.9824	22.1299	21.7351	21.6076	21.3832	0.8525	0.3948
##	1182	BRIGHT	27.7600	26.8782	25.1247	23.5088	22.7740	21.7857	1.7535	1.6159
##	1183	FAINT	27.1917	26.7760	25.9399	25.5387	25.2501	25.2693	0.8361	0.4012
##	1184	BRIGHT	25.9807	25.2909	24.0287	23.1311	22.1953	21.6448	1.2622	0.8976
##	1185	FAINT	27.9853	27.8328	27.0803	26.7879	26.5447	27.5120	0.7525	0.2924
##	1186	BRIGHT	28.1720	27.4876	26.4924	24.8313	24.0774	23.0152	0.9952	1.6611
##	1187	FAINT	27.9415	27.8287	27.0766	26.5839	26.7858	26.0485	0.7521	0.4927
##	1188	BRIGHT	25.1354	24.8750	24.1212	23.3792	23.1578	23.0102	0.7538	0.7420
##	1189	BRIGHT	26.7738	24.9696	23.3865	22.3064	21.9041	21.5701	1.5831	1.0801
##	1190	FAINT	27.8468	28.4563	27.8755	26.9741	26.8245	26.2493	0.5808	0.9014
##	1191	BRIGHT	25.7169	25.6892	25.3056	24.6430	24.4897	24.1409	0.3836	0.6626
##	1192	FAINT	28.3041	28.1861	27.0346	26.5545	26.1252	28.4761	1.1515	0.4801
##	1193	BRIGHT	25.3094	24.4113	23.7315	23.5246	23.3202	23.3665	0.6798	0.2069
##	1194	FAINT	27.7687	27.7782	26.8172	26.0388	25.7398	27.3076	0.9610	0.7784
##	1195	BRIGHT	26.2857	25.3557	23.7697	22.5534	21.9859	21.6675	1.5860	1.2163
##	1196	FAINT	28.1318	27.6250	27.6621	26.6255	26.6604	25.5112	-0.0371	1.0366
##	1197	FAINT	29.9636	27.3343	26.6449	25.5430	25.0214	23.9231	0.6894	1.1019
##	1198	FAINT	27.9316	27.0822	26.1901	26.0768	25.5429	25.0146	0.8921	0.1133
##	1199	BRIGHT	26.3920	25.9853	24.9748	24.0486	23.6980	23.4655	1.0105	0.9262
##	1200	FAINT	26.9503	26.9335	26.9182	26.5142	26.5225	26.6053	0.0153	0.4040
##	1201	BRIGHT	26.3482	25.8136	24.9447	24.6562	24.6135	24.2930	0.8689	0.2885
##	1202	FAINT	29.4468	28.3323	26.6977	25.7321	25.5830	25.3977	1.6346	0.9656
##	1203	FAINT	30.1484	28.2306	27.4162	26.7782	25.9424	25.5635	0.8144	0.6380
##	1204	FAINT	27.0467	27.2284	26.9590	26.2656	25.7473	26.2073	0.2694	0.6934

##	1205	FAINT	27.6816	27.7062	26.9017	26.6408	26.9027	27.2985	0.8045	0.2609
##	1206	FAINT	27.9489	28.7904	27.0205	25.0337	24.0058	23.4948	1.7699	1.9868
##	1207	FAINT	27.1956	26.8975	26.3640	25.6243	25.3542	24.9257	0.5335	0.7397
##	1208	FAINT	27.5184	28.2435	27.6596	26.7886	27.2381	26.8290	0.5839	0.8710
##	1209	FAINT	27.9144	27.5921	26.3024	25.1248	24.5146	24.1713	1.2897	1.1776
##	1210	FAINT	27.0278	26.9508	26.6835	26.2242	26.0722	26.0151	0.2673	0.4593
##	1211	BRIGHT	24.4426	23.9007	23.0565	22.7876	22.4811	22.4374	0.8442	0.2689
##	1212	BRIGHT	26.2617	25.4071	24.4469	23.7014	23.4827	23.3003	0.9602	0.7455
##	1213	BRIGHT	26.6851	25.8848	24.6381	23.8939	23.6193	23.3430	1.2467	0.7442
##	1214	BRIGHT	27.1546	26.5574	25.7209	24.7504	24.3502	24.2545	0.8365	0.9705
##	1215	FAINT	26.5137	26.6980	26.2224	25.8261	25.2774	25.1958	0.4756	0.3963
##	1216	BRIGHT	28.4125	26.8001	25.8894	24.9873	24.6169	24.3208	0.9107	0.9021
##	1217	FAINT	28.5070	30.4777	27.0947	26.1549	25.7058	25.3485	3.3830	0.9398
##	1218	FAINT	27.2153	26.8973	26.0499	25.3312	24.8606	24.7844	0.8474	0.7187
##	1219	BRIGHT	26.8757	26.0275	24.5413	23.5573	22.5968	22.0065	1.4862	0.9840
##	1220	FAINT	26.4785	26.5015	26.4870	26.7396	26.6168	27.5819	0.0145	-0.2526
##	1221	FAINT	28.4132	32.2153	27.4569	26.9474	27.1992	26.2982	4.7584	0.5095
##	1222	FAINT	30.9965	27.7042	27.2337	26.8039	26.7393	26.4378	0.4705	0.4298
##	1223	FAINT	28.0014	28.8746	27.5416	26.9592	26.4355	26.0088	1.3330	0.5824
##	1224	BRIGHT	25.2917	25.1045	24.5528	24.0550	23.9213	23.6780	0.5517	0.4978
##	1225	BRIGHT	27.1150	26.1186	24.9699	24.6717	24.5554	24.4938	1.1487	0.2982
##	1226	FAINT	28.5219	28.2433	27.9487	26.9017	26.7147	26.1294	0.2946	1.0470
##	1227	FAINT	26.5983	26.7290	25.8026	25.2724	24.6314	24.4204	0.9264	0.5302
##	1228	FAINT	26.8570	26.6665	26.1497	25.4368	25.1459	24.9433	0.5168	0.7129
##	1229	FAINT	29.1131	27.9733	27.3347	26.9814	26.0948	25.6888	0.6386	0.3533
##	1230	FAINT	27.7574	27.4927	26.7307	26.0838	25.8739	25.5329	0.7620	0.6469
##	1231	FAINT	26.3401	25.9290	25.5991	25.2853	24.4623	24.0902	0.3299	0.3138
##	1232	BRIGHT	27.0832	26.1789	24.8953	24.5221	24.2561	24.1766	1.2836	0.3732
##	1233	FAINT	27.7394	26.7715	25.9429	25.3507	25.0530	24.8434	0.8286	0.5922
##	1234	FAINT	30.3685	29.7283	27.3677	26.2175	25.2960	24.8419	2.3606	1.1502
##	1235	BRIGHT	26.5612	25.9836	25.3291	24.8825	24.8690	24.9053	0.6545	0.4466
##	1236	BRIGHT	25.4403	25.4014	24.9453	24.5473	23.9140	23.6835	0.4561	0.3980
##	1237	FAINT	28.4371	27.5815	26.6988	26.7519	26.1694	27.0397	0.8827	-0.0531
##	1238	FAINT	27.8123	27.0392	26.0873	25.3432	24.4669	23.8441	0.9519	0.7441
##	1239	BRIGHT	24.2316	23.9278	23.3114	22.7841	22.6388	22.4734	0.6164	0.5273
##	1240	FAINT	26.5179	26.4444	26.5156	26.7346	27.5630	26.1183	-0.0712	-0.2190
##	1241	FAINT	27.1217	28.0080	27.1405	26.8263	25.8670	26.8054	0.8675	0.3142
##	1242	FAINT	28.4629	27.3131	26.4160	26.0489	25.7763	26.2723	0.8971	0.3671
##	1243	BRIGHT	27.0688	25.9659	24.6411	23.4883	22.7317	22.3306	1.3248	1.1528
##	1244	FAINT	27.3906	27.3583	27.0274	26.1603	25.5012	24.9960	0.3309	0.8671
##	1245	FAINT	26.8227	26.6907	26.3698	25.6301	25.3466	25.3752	0.3209	0.7397
##	1246	FAINT	29.3635	27.7889	27.4923	26.8230	26.9889	25.7750	0.2966	0.6693
##	1247	BRIGHT	25.8939	25.6718	25.1824	24.4504	24.0212	23.8379	0.4894	0.7320
##	1248	FAINT	27.2151	26.9003	26.1516	25.9216	26.2227	26.3383	0.7487	0.2300
##	1249	FAINT	26.7439	26.6502	25.9487	25.5217	25.4024	25.1483	0.7015	0.4270
##	1250	FAINT	27.3327	27.0452	26.4637	26.2701	25.5078	25.0769	0.5815	0.1936
##	1251	FAINT	27.0535	26.9082	26.5608	26.6306	26.4109	28.4004	0.3474	-0.0698
##	1252	FAINT	27.9107	26.5803	25.4709	25.0944	24.9140	24.8043	1.1094	0.3765
##	1253	FAINT	26.6544	26.3875	26.0841	25.3943	24.9202	23.8545	0.3034	0.6898
##	1254	FAINT	27.7286	27.2508	26.9168	26.4932	25.9329	25.5499	0.3340	0.4236
##	1255	BRIGHT	24.6531	23.2289	21.6640	20.4951	20.0738	19.7363	1.5649	1.1689
##	1256	FAINT	26.1456	25.9726	25.7835	25.7067	26.0965	26.0540	0.1891	0.0768
##	1257	FAINT	29.7088	28.6606	27.4907	25.7409	24.7922	24.1887	1.1699	1.7498
##	1258	FAINT	27.7710	27.6318	27.2243	26.9882	26.6964	26.8460	0.4075	0.2361
##	1259	BRIGHT	27.5780	26.3525	24.5520	23.3222	22.8189	22.5168	1.8005	1.2298
##	1260	FAINT	26.9224	27.1365	26.5844	25.9323	25.6335	24.7732	0.5521	0.6521
##	1261	BRIGHT	24.8403	24.3438	23.4553	22.9768	22.8629	22.7453	0.8885	0.4785
##	1262	FAINT	27.7502	28.5346	27.9420	26.6887	26.6088	26.5500	0.5926	1.2533
##	1263	FAINT	28.4162	28.8873	27.1292	26.7025	26.3791	27.0693	1.7581	0.4267
##	1264	FAINT	27.7815	27.8665	26.5575	25.7233	24.8610	24.1064	1.3090	0.8342
##	1265	BRIGHT	26.5205	24.5079	22.8872	21.7235	21.3102	20.9763	1.6207	1.1637
##	1266	FAINT	29.0807	28.2981	27.9404	26.7613	26.0190	25.2355	0.3577	1.1791
##	1267	FAINT	28.5318	28.7504	27.8460	26.8132	26.2271	26.2156	0.9044	1.0328
##	1268	BRIGHT	25.4236	24.9726	24.1506	23.9028	23.8561	23.5115	0.8220	0.2478
##	1269	FAINT	26.7729	27.1909	26.9078	26.9572	27.0289	26.5178	0.2831	-0.0494
##	1270	FAINT	30.2619	28.0731	27.6698	26.8897	27.2088	26.6135	0.4033	0.7801
##	1271	FAINT	29.1920	28.1545	26.5971	26.4192	25.6097	26.6571	1.5574	0.1779
##	1272	FAINT	26.9415	26.6770	25.9298	25.7681	25.7026	25.4018	0.7472	0.1617
##	1273	FAINT	27.0909	27.1838	26.7865	25.6212	25.1676	24.6060	0.3973	1.1653
##	1274	FAINT	28.3447	28.2849	27.6353	26.5047	25.5219	25.2617	0.6496	1.1306
##	1275	BRIGHT	24.9982	23.5571	22.9897	22.6694	22.5615	22.3870	0.5674	0.3203
##	1276	FAINT	26.3733	26.1349	25.6629	25.2057	24.6120	24.3600	0.4720	0.4572
##	1277	BRIGHT	24.2006	23.8987	23.8123	23.5501	23.2160	22.6066	0.0864	0.2622
##	1278	FAINT	26.5535	26.2510	25.5188	25.0352	24.8563	24.8512	0.7322	0.4836
##	1279	BRIGHT	27.4238	26.5284	25.9076	24.8566	24.2575	23.3990	0.6208	1.0510
##	1280	BRIGHT	27.5939	24.9126	23.1719	21.8581	21.2908	20.8961	1.7407	1.3138
##	1281	BRIGHT	27.7997	26.6926	25.4752	24.9169	24.6574	24.2709	1.2174	0.5583
##	1282	BRIGHT	26.9807	26.1557	25.1181	24.2361	23.4655	22.7704	1.0376	0.8820
##	1283	FAINT	26.1633	26.5624	26.3738	25.8391	25.6235	25.3964	0.1886	0.5347

##	1284	FAINT	27.2849	27.8000	27.1287	26.3272	25.8502	25.5431	0.6713	0.8015
##	1285	BRIGHT	26.8855	25.9725	23.8740	22.7598	21.8251	21.3531	2.0985	1.1142
##	1286	FAINT	27.5679	28.0929	27.1133	26.5746	26.3506	25.8788	0.9796	0.5387
##	1287	FAINT	26.5721	26.5304	26.2097	25.6302	25.4691	24.4264	0.3207	0.5795
##	1288	BRIGHT	25.8605	25.5048	25.1893	24.7858	24.6092	24.0972	0.3155	0.4035
##	1289	FAINT	31.3225	27.8895	27.1702	26.6397	28.1263	26.9638	0.7193	0.5305
##	1290	BRIGHT	23.1248	22.4240	21.4284	20.7149	20.4367	20.1871	0.9956	0.7135
##	1291	FAINT	28.6409	27.2166	26.6659	26.5541	26.6028	25.8628	0.5507	0.1118
##	1292	FAINT	28.7323	28.6620	27.5989	25.3576	24.6664	23.6929	1.0631	2.2413
##	1293	BRIGHT	24.4068	23.7841	22.7294	22.4712	22.3557	22.2531	1.0547	0.2582
##	1294	BRIGHT	28.3145	26.7711	24.4293	23.2740	22.3623	22.0043	2.3418	1.1553
##	1295	FAINT	28.0679	27.1351	26.5496	25.9680	25.4516	25.0892	0.5855	0.5816
##	1296	BRIGHT	25.8917	25.3624	24.7770	24.5078	24.3523	24.2699	0.5854	0.2692
##	1297	FAINT	28.0643	28.0573	27.4715	26.4944	26.4042	26.0201	0.5858	0.9771
##	1298	FAINT	27.1353	26.5709	25.7873	25.5283	25.1562	25.5024	0.7836	0.2590
##	1299	BRIGHT	27.9459	28.0097	26.0572	24.9562	23.9951	23.5554	1.9525	1.1010
##	1300	BRIGHT	24.1375	23.6869	22.8882	22.2716	22.1035	21.9346	0.7987	0.6166
##	1301	FAINT	28.2293	28.1339	27.5974	26.8898	27.0554	26.2814	0.5365	0.7076
##	1302	FAINT	29.0196	27.5809	26.9583	26.1788	25.7051	25.1215	0.6226	0.7795
##	1303	FAINT	26.1635	26.2100	26.1087	25.9493	25.7830	25.2441	0.1013	0.1594
##	1304	BRIGHT	26.8926	25.9322	25.3938	24.9326	24.7707	24.8804	0.5384	0.4612
##	1305	BRIGHT	24.7516	24.1529	23.7013	23.5060	23.4613	23.5373	0.4516	0.1953
##	1306	FAINT	27.9612	27.1373	26.3547	25.9603	25.9527	25.3750	0.7826	0.3944
##	1307	BRIGHT	22.1625	21.2597	20.4116	20.1120	19.8819	19.8007	0.8481	0.2996
##	1308	BRIGHT	27.2966	25.0566	23.3823	22.2330	21.8110	21.4895	1.6743	1.1493
##	1309	BRIGHT	25.1608	24.5250	23.6409	23.4004	23.2762	23.1357	0.8841	0.2405
##	1310	FAINT	27.9754	28.4024	26.9246	25.9357	25.4211	24.8386	1.4778	0.9889
##	1311	FAINT	26.7049	26.1899	25.8347	25.5270	24.9054	24.6084	0.3552	0.3077
##	1312	FAINT	28.0228	27.7553	27.0238	26.3135	25.9297	26.4368	0.7315	0.7103
##	1313	BRIGHT	24.6562	24.6241	24.5863	24.5966	24.4917	24.3309	0.0378	-0.0103
##	1314	FAINT	28.4277	27.8224	27.1706	26.7541	26.9203	26.0742	0.6518	0.4165
##	1315	FAINT	27.2139	26.9877	26.9084	26.3974	26.2546	25.9855	0.0793	0.5110
##	1316	FAINT	29.3789	28.0072	26.0435	25.0287	24.1009	23.6192	1.9637	1.0148
##	1317	BRIGHT	25.1118	24.4352	23.4579	22.9525	22.7483	22.5358	0.9773	0.5054
##	1318	FAINT	27.7414	26.6419	26.0616	25.9879	26.0365	25.5539	0.5803	0.0737
##	1319	BRIGHT	24.6573	24.6812	24.6665	24.9246	24.5710	24.9624	0.0147	-0.2581
##	1320	FAINT	28.6441	27.4064	26.2205	25.9797	25.5594	25.2578	1.1859	0.2408
##	1321	BRIGHT	24.3487	23.0417	21.6415	20.6913	20.2780	19.9612	1.4002	0.9502
##	1322	FAINT	28.5678	28.0485	27.0912	26.7757	26.8597	27.5447	0.9573	0.3155
##	1323	BRIGHT	21.1878	19.6717	18.5965	18.1612	17.9308	17.7205	1.0752	0.4353
##	1324	BRIGHT	26.2387	26.0743	25.5574	24.8659	24.5833	24.4369	0.5169	0.6915
##	1325	FAINT	29.8426	28.1809	27.1558	26.6097	26.1928	26.1258	1.0251	0.5461
##	1326	FAINT	26.2577	26.0787	26.0648	25.7281	25.8291	25.0802	0.0139	0.3367
##	1327	FAINT	27.9506	27.5888	27.1433	26.5866	26.1490	25.7738	0.4455	0.5567
##	1328	BRIGHT	25.0201	24.6022	23.6071	23.2513	23.0463	22.8016	0.9951	0.3558
##	1329	FAINT	26.2307	26.0802	25.6803	25.1945	24.7592	24.1626	0.3999	0.4858
##	1330	FAINT	27.4632	27.0450	26.4036	26.0520	25.6872	26.3819	0.6414	0.3516
##	1331	FAINT	29.7757	27.4123	26.5009	25.5366	24.8249	24.7488	0.9114	0.9643
##	1332	FAINT	27.9463	27.5043	26.6890	26.1060	26.0506	27.5458	0.8153	0.5830
##	1333	BRIGHT	25.9820	25.2551	24.3735	23.3372	22.9175	22.6636	0.8816	1.0363
##	1334	FAINT	28.3546	27.6891	26.9022	26.2482	26.2663	25.5388	0.7869	0.6540
##	1335	FAINT	27.7458	27.2848	26.4190	26.2969	25.9345	26.8834	0.8658	0.1221
##	1336	FAINT	26.1049	26.0908	25.6359	25.5868	25.5603	25.8853	0.4549	0.0491
##	1337	FAINT	29.6902	27.6839	26.8875	26.6530	26.0108	25.7822	0.7964	0.2345
##	1338	BRIGHT	24.6254	23.8782	23.2216	23.0968	22.9110	22.9465	0.6566	0.1248
##	1339	FAINT	26.8379	27.3606	27.2295	26.9333	28.8353	28.0190	0.1311	0.2962
##	1340	FAINT	27.5435	28.7009	27.4052	26.8072	26.4263	26.2349	1.2957	0.5980
##	1341	BRIGHT	28.5554	27.4276	26.1357	24.2702	23.5582	22.6205	1.2919	1.8655
##	1342	FAINT	26.8460	26.4510	26.1719	25.6392	25.4707	25.1218	0.2791	0.5327
##	1343	FAINT	29.5065	27.9902	26.3751	25.0386	24.1295	23.2089	1.6151	1.3365
##	1344	FAINT	28.9484	28.1436	26.7641	25.9365	25.6515	25.1461	1.3795	0.8276
##	1345	FAINT	30.2021	29.6047	27.8185	26.3200	26.4831	25.7431	1.7862	1.4985
##	1346	BRIGHT	24.9686	24.5464	23.9473	23.8654	23.5336	23.5468	0.5991	0.0819
##	1347	FAINT	27.8211	27.3895	26.8889	26.3449	25.5595	24.9243	0.5006	0.5440
##	1348	BRIGHT	27.2767	26.2254	25.1649	24.8074	24.5240	24.3909	1.0605	0.3575
##	1349	FAINT	28.1697	27.2012	26.8312	26.1355	25.7221	26.3107	0.3700	0.6957
##	1350	BRIGHT	25.9291	25.4895	24.6507	23.8913	23.1488	22.7697	0.8388	0.7594
##	1351	FAINT	29.1936	27.4048	26.7910	26.6908	26.7010	25.9851	0.6138	0.1002
##	1352	FAINT	27.6787	27.5734	27.0360	26.1445	25.4411	24.7667	0.5374	0.8915
##	1353	BRIGHT	26.6517	25.1603	23.6142	23.0030	22.6708	22.4464	1.5461	0.6112
##	1354	FAINT	27.9900	27.3640	26.3897	25.5780	25.2714	24.8632	0.9743	0.8117
##	1355	BRIGHT	28.5336	26.1989	24.6832	23.5380	23.1574	22.8101	1.5157	1.1452
##	1356	FAINT	28.0766	26.7865	26.2404	25.8944	25.5397	25.5953	0.5461	0.3460
##	1357	FAINT	27.2231	26.8767	26.2033	26.0960	25.7360	26.5133	0.6734	0.1073
##	1358	FAINT	26.3494	26.2797	25.9963	25.3073	25.0646	25.2520	0.2834	0.6890
##	1359	FAINT	29.5172	27.3193	26.2240	25.8782	25.6583	25.3706	1.0953	0.3458
##	1360	FAINT	29.1338	28.4371	27.3016	26.7181	26.5719	26.1450	1.1355	0.5835
##	1361	FAINT	27.2172	27.3326	26.5975	25.5918	25.8276	25.2999	0.7351	1.0057
##	1362	BRIGHT	25.8198	25.1148	24.0614	23.7064	23.4745	23.3348	1.0534	0.3550

##	1363	FAINT	25.3692	25.3589	25.3187	25.1608	24.7269	24.5118	0.0402	0.1579
##	1364	BRIGHT	24.9982	24.9790	24.8466	24.6334	24.1554	23.9463	0.1324	0.2132
##	1365	BRIGHT	26.4484	25.5143	24.9182	24.6634	24.5402	24.8067	0.5961	0.2548
##	1366	BRIGHT	25.8338	24.0516	22.4493	21.3441	20.9441	20.5900	1.6023	1.1052
##	1367	FAINT	27.9226	27.8306	27.5009	26.7190	25.9623	25.4898	0.3297	0.7819
##	1368	FAINT	26.7273	26.7209	26.0755	25.8893	25.8407	27.0557	0.6454	0.1862
##	1369	FAINT	32.0916	28.0604	27.7225	26.8787	26.7048	26.8423	0.3379	0.8438
##	1370	FAINT	26.8761	25.8638	25.2766	25.1137	25.0169	25.3895	0.5872	0.1629
##	1371	FAINT	27.8182	27.1645	26.8811	26.2950	26.3514	25.3846	0.2834	0.5861
##	1372	FAINT	27.1547	27.1037	26.1150	25.8620	25.8286	26.1497	0.9887	0.2530
##	1373	FAINT	27.1849	28.4974	28.0447	26.7596	26.5659	27.6137	0.4527	1.2851
##	1374	BRIGHT	26.4072	25.3538	24.7961	24.5350	24.4549	24.6358	0.5577	0.2611
##	1375	FAINT	29.0857	27.8034	26.8519	26.3687	26.4994	26.2063	0.9515	0.4832
##	1376	FAINT	28.6764	27.6930	26.8921	25.9550	25.6846	25.4684	0.8009	0.9371
##	1377	FAINT	28.1270	26.7683	26.1894	25.5185	25.3347	25.0968	0.5789	0.6709
##	1378	FAINT	28.0249	27.6032	27.2513	26.8032	26.2069	28.0653	0.3519	0.4481
##	1379	FAINT	27.2210	26.2076	25.4158	25.1364	24.8253	24.8001	0.7918	0.2794
##	1380	FAINT	27.1062	26.7896	26.6193	26.4402	26.2082	25.2893	0.1703	0.1791
##	1381	FAINT	27.5868	26.7573	26.1565	25.7633	25.2077	24.7754	0.6008	0.3932
##	1382	BRIGHT	25.8685	25.4673	24.8295	24.4327	24.3871	24.0331	0.6378	0.3968
##	1383	FAINT	26.5799	26.1684	25.7807	25.2051	24.7771	24.5056	0.3877	0.5756
##	1384	FAINT	28.0894	27.0736	26.8815	26.5261	26.5373	26.0624	0.1921	0.3554
##	1385	BRIGHT	25.7766	23.7050	22.0363	20.8411	20.3969	20.0179	1.6687	1.1952
##	1386	FAINT	28.9306	26.8308	26.7607	26.5094	26.4452	26.4627	0.0701	0.2513
##	1387	FAINT	28.8981	28.8753	27.4350	26.8910	26.3755	25.5636	1.4403	0.5440
##	1388	BRIGHT	25.7977	24.1892	22.6312	21.7127	21.3339	21.0318	1.5580	0.9185
##	1389	BRIGHT	25.7395	25.0095	24.1326	23.6123	23.4212	23.1918	0.8769	0.5203
##	1390	FAINT	29.0225	27.7582	26.8710	26.2727	25.8713	25.0979	0.8872	0.5983
##	1391	BRIGHT	27.0493	26.7075	25.5574	24.9405	24.6334	24.5683	1.1501	0.6169
##	1392	FAINT	28.4218	28.9422	27.7883	26.9995	27.3670	26.2861	1.1539	0.7888
##	1393	FAINT	26.1438	25.9851	25.7413	25.4906	24.8308	24.5290	0.2438	0.2507
##	1394	BRIGHT	25.1875	24.4213	23.3007	22.9558	22.7616	22.6026	1.1206	0.3449
##	1395	BRIGHT	26.9336	25.5976	24.0499	22.9709	22.5310	22.1615	1.5477	1.0790
##	1396	FAINT	27.5060	26.5129	25.8000	25.6325	25.5106	26.3266	0.7129	0.1675
##	1397	FAINT	29.0028	27.7463	27.6521	26.8066	26.6939	26.5679	0.0942	0.8455
##	1398	BRIGHT	26.3590	25.8579	25.0933	24.6760	24.5639	24.3770	0.7646	0.4173
##	1399	FAINT	31.3467	27.9818	27.2715	26.9249	26.3532	26.1145	0.7103	0.3466
##	1400	FAINT	26.5603	26.4484	26.3221	26.3081	25.8356	25.9265	0.1263	0.0140
##	1401	FAINT	27.8896	27.9011	27.3903	26.5832	26.4451	26.0714	0.5108	0.8071
##	1402	BRIGHT	26.3095	25.7499	24.9379	24.2150	23.6407	23.3710	0.8120	0.7229
##	1403	BRIGHT	27.5083	26.7008	25.4658	24.7605	24.4275	24.3778	1.2350	0.7053
##	1404	BRIGHT	27.2221	26.1061	25.5390	24.6934	23.9821	23.2407	0.5671	0.8456
##	1405	FAINT	27.1087	26.8218	26.2569	25.6237	25.3586	25.3820	0.5649	0.6332
##	1406	BRIGHT	26.1187	25.3620	24.3848	23.8571	23.6956	23.3291	0.9772	0.5277
##	1407	BRIGHT	25.4223	25.4157	25.2368	24.8096	24.3244	23.8222	0.1789	0.4272
##	1408	BRIGHT	23.0755	21.2033	19.6096	19.0122	18.6850	18.4585	1.5937	0.5974
##	1409	FAINT	26.2368	26.3316	26.1667	25.7639	25.5811	24.7359	0.1649	0.4028
##	1410	FAINT	28.9749	27.8668	27.1124	26.5418	26.6438	29.5056	0.7544	0.5706
##	1411	FAINT	28.2901	28.0286	27.3156	25.2917	23.9877	23.3264	0.7130	2.0239
##	1412	FAINT	26.9622	26.5029	25.6557	25.0153	24.6758	24.2695	0.8472	0.6404
##	1413	FAINT	28.5333	27.4747	27.3091	26.3662	25.7384	25.2620	0.1656	0.9429
##	1414	BRIGHT	33.0064	27.2749	25.8528	24.6955	24.2571	24.0110	1.4221	1.1573
##	1415	FAINT	28.4506	28.7632	27.9373	26.3180	25.6576	24.7918	0.8259	1.6193
##	1416	FAINT	28.9260	27.8906	26.9790	26.8959	26.6023	26.8000	0.9116	0.0831
##	1417	FAINT	29.6568	27.6823	27.0134	26.4695	25.8563	25.2952	0.6689	0.5439
##	1418	FAINT	28.6555	29.6338	27.2112	26.5053	25.5960	25.4638	2.4226	0.7059
##	1419	FAINT	27.9022	27.2075	26.3325	25.9105	25.6367	26.0163	0.8750	0.4220
##	1420	FAINT	27.2926	27.6846	26.7422	26.2237	26.1061	26.2975	0.9424	0.5185
##	1421	FAINT	26.8046	26.6288	25.8058	25.2514	25.3733	25.1980	0.8230	0.5544
##	1422	FAINT	31.5697	27.6830	27.2622	26.5940	26.1917	27.0444	0.4208	0.6682
##	1423	BRIGHT	25.9772	25.5849	24.5945	23.6383	22.8893	22.0556	0.9904	0.9562
##	1424	FAINT	25.8273	26.0160	26.0430	26.2028	25.9870	25.6795	-0.0270	-0.1598
##	1425	FAINT	27.3060	27.2673	26.7116	26.1523	25.6844	25.5168	0.5557	0.5593
##	1426	BRIGHT	25.4063	25.0405	24.1427	23.9526	23.8484	23.7753	0.8978	0.1901
##	1427	BRIGHT	27.9848	26.7762	25.7033	24.6150	23.9825	23.7220	1.0729	1.0883
##	1428	FAINT	26.7745	26.4917	25.9521	25.7245	25.8194	25.7631	0.5396	0.2276
##	1429	FAINT	26.2625	26.3947	26.2435	26.2996	25.9531	26.2083	0.1512	-0.0561
##	1430	BRIGHT	25.5193	25.0045	24.1574	23.4924	22.9571	22.7557	0.8471	0.6650
##	1431	BRIGHT	21.8636	21.2437	20.1866	19.8889	19.7033	19.5755	1.0571	0.2977
##	1432	FAINT	28.8465	27.7978	26.7775	26.4749	26.1361	25.9538	1.0203	0.3026
##	1433	FAINT	27.2944	26.5131	25.9741	25.4961	24.7830	24.3699	0.5390	0.4780
##	1434	FAINT	27.1681	27.0349	26.7409	26.2637	26.2351	25.7757	0.2940	0.4772
##	1435	FAINT	28.1350	28.1047	26.7457	26.5030	26.3879	26.1360	1.3590	0.2427
##	1436	FAINT	27.8182	27.5691	26.6766	26.0425	25.6718	24.7529	0.8925	0.6341
##	1437	FAINT	27.4629	26.9755	26.3694	26.4462	25.9948	26.0125	0.6061	-0.0768
##	1438	FAINT	27.4531	26.8934	26.1124	25.2662	24.7326	24.5316	0.7810	0.8462
##	1439	FAINT	26.5808	26.2645	25.9187	25.2465	24.8264	24.1552	0.3458	0.6722
##	1440	BRIGHT	26.8463	26.0210	25.4863	24.7943	24.5989	24.4515	0.5347	0.6920
##	1441	BRIGHT	24.5038	23.9860	23.0910	22.2841	22.0126	21.7439	0.8950	0.8069

##	1442	FAINT	28.8748	27.5515	26.1371	25.4055	25.0566	24.7918	1.4144	0.7316
##	1443	BRIGHT	24.6503	24.3133	23.6933	23.1157	22.5535	22.3519	0.6200	0.5776
##	1444	FAINT	28.1393	28.2271	27.7281	26.9500	27.4511	32.4268	0.4990	0.7781
##	1445	FAINT	28.0509	27.2104	26.3247	26.1373	26.3696	26.1230	0.8857	0.1874
##	1446	FAINT	28.2093	27.9545	26.7329	26.0409	26.1069	25.8433	1.2216	0.6920
##	1447	FAINT	29.0908	27.7872	27.2938	26.8382	25.8131	25.4943	0.4934	0.4556
##	1448	FAINT	29.8205	26.7538	25.5862	25.2689	25.1877	24.4583	1.1676	0.3173
##	1449	FAINT	28.4072	30.0350	27.9045	26.4550	25.6436	25.0973	2.1305	1.4495
##	1450	BRIGHT	24.8662	24.5735	24.1261	23.6829	23.0827	22.5985	0.4474	0.4432
##	1451	BRIGHT	24.7238	24.1956	23.3305	23.0300	22.9141	22.4809	0.8651	0.3005
##	1452	BRIGHT	26.6321	25.8924	25.0177	24.3889	24.2097	23.9181	0.8747	0.6288
##	1453	FAINT	26.1268	25.7365	25.2536	25.1798	25.0872	24.7282	0.4829	0.0738
##	1454	BRIGHT	26.0521	25.7098	24.8244	23.9559	23.3985	23.1938	0.8854	0.8685
##	1455	FAINT	29.3949	27.6971	26.6771	26.5781	26.7814	26.3032	1.0200	0.0990
##	1456	FAINT	27.1550	27.1319	26.4174	25.7875	25.0481	24.8029	0.7145	0.6299
##	1457	FAINT	28.3040	26.9455	26.4497	25.6963	24.8172	24.4763	0.4958	0.7534
##	1458	FAINT	27.8711	26.9001	26.3880	25.7361	25.3880	24.6434	0.5121	0.6519
##	1459	BRIGHT	25.1894	24.4684	23.5785	22.6842	22.2478	22.0284	0.8899	0.8943
##	1460	FAINT	28.7318	27.3667	26.0082	25.1581	24.3833	23.8700	1.3585	0.8501
##	1461	FAINT	27.6659	27.4185	26.6193	26.1398	25.8558	25.2364	0.7992	0.4795
##	1462	FAINT	28.4675	28.9044	27.1207	26.9452	27.1556	26.9270	1.7837	0.1755
##	1463	FAINT	28.9199	26.7605	26.1247	25.9257	25.9298	25.8342	0.6358	0.1990
##	1464	FAINT	26.9863	27.5743	26.6107	26.0581	25.5570	25.5040	0.9636	0.5526
##	1465	BRIGHT	22.8167	21.1833	19.7572	19.2783	18.9687	18.8080	1.4261	0.4789
##	1466	FAINT	30.6785	28.1084	27.2943	26.5295	26.3225	26.2002	0.8141	0.7648
##	1467	BRIGHT	27.3834	27.2605	25.5889	24.4745	23.7739	23.5075	1.6716	1.1144
##	1468	FAINT	26.9082	26.8392	26.1225	25.5651	24.8916	24.6662	0.7167	0.5574
##	1469	FAINT	27.7052	26.7805	26.0095	25.7495	25.7206	26.2290	0.7710	0.2600
##	1470	BRIGHT	27.2132	25.8914	25.1517	24.4786	24.2582	24.1707	0.7397	0.6731
##	1471	BRIGHT	26.2821	25.4397	24.9610	24.6825	24.5340	24.2765	0.4787	0.2785
##	1472	FAINT	28.0197	27.5954	26.8588	26.4368	25.7019	25.0833	0.7366	0.4220
##	1473	BRIGHT	24.1165	23.4223	22.5778	21.8280	21.5955	21.3957	0.8445	0.7498
##	1474	FAINT	27.6647	27.3746	26.4718	26.0495	25.2192	24.7848	0.9028	0.4223
##	1475	FAINT	26.1331	25.8334	25.3803	25.3018	25.2560	25.0499	0.4531	0.0785
##	1476	FAINT	26.8313	27.1448	26.5832	26.1735	25.9239	26.8944	0.5616	0.4097
##	1477	BRIGHT	28.8128	27.3006	25.9613	24.6811	23.8791	22.9618	1.3393	1.2802
##	1478	FAINT	29.3459	27.9833	26.7226	25.5870	25.2457	24.8849	1.2607	1.1356
##	1479	FAINT	27.8673	28.1178	27.6963	26.8325	27.1821	26.1141	0.4215	0.8638
##	1480	FAINT	28.1009	27.7347	27.2412	26.4455	26.1845	25.7743	0.4935	0.7957
##	1481	FAINT	28.8329	27.5643	26.9713	26.4389	25.9638	26.7700	0.5930	0.5324
##	1482	BRIGHT	25.8311	25.5954	24.8430	24.3167	24.1927	23.9854	0.7524	0.5263
##	1483	FAINT	26.7983	26.9261	26.9069	26.8013	26.3210	25.6057	0.0192	0.1056
##	1484	FAINT	28.8555	29.3919	27.8786	26.4742	25.5368	24.7718	1.5133	1.4044
##	1485	FAINT	30.6853	28.9611	28.2593	26.8634	27.0546	27.5582	0.7018	1.3959
##	1486	FAINT	26.6831	26.4187	26.1307	25.7070	25.0183	24.6468	0.2880	0.4237
##	1487	FAINT	28.4820	27.4011	26.6175	26.2641	26.8070	28.2494	0.7836	0.3534
##	1488	BRIGHT	24.4120	24.2234	23.8778	23.3425	22.9905	22.8935	0.3456	0.5353
##	1489	FAINT	27.4841	28.3837	27.1189	26.3912	25.9451	25.6763	1.2648	0.7277
##	1490	BRIGHT	25.8932	25.1322	24.1687	23.2760	22.3964	21.8752	0.9635	0.8927
##	1491	FAINT	27.8603	27.6000	26.8910	26.5458	25.7731	25.3716	0.7090	0.3452
##	1492	FAINT	27.2110	27.7152	26.6859	26.3875	26.7814	26.1393	1.0293	0.2984
##	1493	BRIGHT	26.4101	26.1523	25.3518	24.9898	24.8963	24.4354	0.8005	0.3620
##	1494	FAINT	27.9200	28.6908	27.5661	26.8752	27.6295	26.6352	1.1247	0.6909
##	1495	FAINT	27.9913	27.2870	26.9209	25.9513	25.9293	26.2185	0.3661	0.9696
##	1496	FAINT	27.9587	26.9895	26.4265	25.9147	25.7537	26.5281	0.5630	0.5118
##	1497	FAINT	28.3890	28.4349	26.9409	26.5850	25.7435	26.5964	1.4940	0.3559
##	1498	BRIGHT	25.5861	24.7234	23.4325	22.5185	22.2162	21.9003	1.2909	0.9140
##	1499	FAINT	27.0197	27.5594	27.1814	26.9427	26.5893	25.6889	0.3780	0.2387
##	1500	FAINT	29.7735	28.0392	27.3714	26.9269	26.5608	25.9165	0.6678	0.4445
##	1501	FAINT	28.1582	27.1483	26.2981	25.6027	25.1604	24.7678	0.8502	0.6954
##	1502	FAINT	26.6120	25.9353	25.5902	25.3869	25.4267	25.0119	0.3451	0.2033
##	1503	BRIGHT	25.2899	24.5310	23.5638	22.6065	22.2668	21.9359	0.9672	0.9573
##	1504	BRIGHT	27.2593	26.1122	24.9061	24.3935	24.1606	23.8601	1.2061	0.5126
##	1505	BRIGHT	24.7556	24.5491	24.3850	24.2160	24.3366	24.2512	0.1641	0.1690
##	1506	FAINT	27.1731	26.9024	26.6405	26.3946	27.2349	26.0855	0.2619	0.2459
##	1507	BRIGHT	27.3979	27.1787	25.0988	23.9429	23.0590	22.7034	2.0799	1.1559
##	1508	FAINT	27.8449	27.5617	26.8753	26.5257	26.2248	26.7126	0.6864	0.3496
##	1509	FAINT	31.1158	27.9612	25.7876	25.0961	24.8507	24.2002	2.1736	0.6915
##	1510	FAINT	26.9933	26.9841	26.8032	26.4272	26.0672	26.1580	0.1809	0.3760
##	1511	BRIGHT	29.0990	27.6792	26.1444	24.9187	24.0368	23.5126	1.5348	1.2257
##	1512	FAINT	26.8181	26.8308	26.3008	25.6440	25.1160	25.1077	0.5300	0.6568
##	1513	FAINT	26.9091	26.1876	25.7808	25.1630	25.1078	25.1499	0.4068	0.6178
##	1514	FAINT	27.3304	27.5640	26.6673	25.9224	26.0288	25.5315	0.8967	0.7449
##	1515	FAINT	29.1833	27.4504	26.6791	26.2459	25.8768	25.9850	0.7713	0.4332
##	1516	FAINT	25.5024	25.8393	25.8683	25.8187	25.8033	26.2875	-0.0290	0.0496
##	1517	FAINT	27.0335	27.3052	27.5672	26.9782	26.5945	26.3923	-0.2620	0.5890
##	1518	BRIGHT	27.4656	26.4429	25.4164	24.9888	25.0396	24.9799	1.0265	0.4276
##	1519	FAINT	27.2542	27.1023	26.7653	26.2548	25.5811	25.2250	0.3370	0.5105
##	1520	FAINT	28.5144	27.2009	26.3507	25.9436	25.7183	25.2918	0.8502	0.4071

##	1521	BRIGHT	19.5533	18.5084	18.0035	17.7448	17.5590	17.3428	0.5049	0.2587
##	1522	FAINT	28.6026	27.0457	26.7757	26.0887	25.8621	26.0106	0.2700	0.6870
##	1523	BRIGHT	26.4125	25.7442	24.8895	23.9139	23.3810	23.1038	0.8547	0.9756
##	1524	BRIGHT	25.8120	24.9950	24.0639	23.7579	23.6260	23.2206	0.9311	0.3060
##	1525	BRIGHT	27.1251	26.0827	25.1425	24.5033	24.3002	24.2024	0.9402	0.6392
##	1526	BRIGHT	25.0762	25.0233	24.3708	24.1524	24.1753	23.7327	0.6525	0.2184
##	1527	FAINT	28.8312	29.1887	28.8417	26.8592	26.5451	26.8941	0.3470	1.9825
##	1528	FAINT	27.2113	27.1668	26.8779	26.6052	27.0319	29.3970	0.2889	0.2727
##	1529	BRIGHT	26.7468	25.9241	24.7790	24.3535	24.1524	23.7575	1.1451	0.4255
##	1530	FAINT	27.2502	26.1206	25.2952	25.1947	25.0898	24.8835	0.8254	0.1005
##	1531	FAINT	26.5702	26.9761	26.9833	26.6813	27.4296	29.4382	-0.0072	0.3020
##	1532	BRIGHT	25.6459	25.4409	24.7348	23.8592	23.5700	23.5179	0.7061	0.8756
##	1533	BRIGHT	25.5926	25.3263	24.6969	24.5051	24.3372	24.4922	0.6294	0.1918
##	1534	FAINT	26.6737	26.9635	26.8373	26.8318	27.5179	26.0136	0.1262	0.0055
##	1535	FAINT	28.8817	28.0726	27.4274	26.9650	27.3042	27.2160	0.6452	0.4624
##	1536	FAINT	26.7559	26.3746	26.2959	25.7851	25.2317	24.7511	0.0787	0.5108
##	1537	BRIGHT	24.7953	24.5936	24.3436	23.9989	23.4422	23.1009	0.2500	0.3447
##	1538	BRIGHT	24.5300	23.7423	23.4213	23.2172	23.1339	23.0750	0.3210	0.2041
##	1539	BRIGHT	23.5040	22.8216	22.4849	22.2612	22.2243	22.1747	0.3367	0.2237
##	1540	BRIGHT	27.6894	27.1878	25.8466	24.8333	24.4806	24.3327	1.3412	1.0133
##	1541	FAINT	26.4304	26.8840	27.2667	26.8195	26.7560	26.1348	-0.3827	0.4472
##	1542	FAINT	27.4417	27.6605	26.6969	26.5276	26.1367	26.8109	0.9636	0.1693
##	1543	BRIGHT	26.7604	25.4408	23.9780	23.2712	22.9719	22.6293	1.4628	0.7068
##	1544	FAINT	28.3977	27.7674	27.4010	26.4804	26.3573	26.5522	0.3664	0.9206
##	1545	FAINT	27.6040	28.2020	27.5516	26.9175	27.1736	26.8334	0.6504	0.6341
##	1546	FAINT	28.7190	27.6583	27.4558	26.1687	25.1881	24.6850	0.2025	1.2871
##	1547	BRIGHT	27.5847	26.4709	25.6861	24.9539	24.5869	23.6645	0.7848	0.7322
##	1548	FAINT	27.4639	27.3367	27.2795	26.8364	26.1075	25.8144	0.0572	0.4431
##	1549	BRIGHT	26.2706	25.8842	25.4399	24.7914	24.2523	23.4869	0.4443	0.6485
##	1550	FAINT	26.8186	26.0636	25.7887	25.5115	25.7696	26.9891	0.2749	0.2772
##	1551	BRIGHT	26.9754	25.6071	24.7244	23.3404	22.6282	21.6533	0.8827	1.3840
##	1552	FAINT	31.1103	28.6090	26.6595	25.6695	24.8386	24.2028	1.9495	0.9900
##	1553	BRIGHT	25.6534	24.7916	23.7887	23.4981	23.3528	23.2567	1.0029	0.2906
##	1554	BRIGHT	26.8954	25.9788	24.9569	24.6444	24.3161	24.2301	1.0219	0.3125
##	1555	FAINT	26.6448	26.5643	26.1540	25.6394	25.5097	25.0411	0.4103	0.5146
##	1556	BRIGHT	27.4782	26.8248	24.6781	23.5512	22.5426	21.9341	2.1467	1.1269
##	1557	BRIGHT	24.4677	23.8363	23.3762	23.1875	23.1562	23.1107	0.4601	0.1887
##	1558	FAINT	28.0649	28.2403	28.0865	26.9439	26.3435	25.6813	0.1538	1.1426
##	1559	FAINT	28.2694	27.3279	26.7693	26.7741	27.4179	29.5511	0.5586	-0.0048
##	1560	FAINT	27.6589	27.1289	26.7344	26.5980	25.7867	26.2260	0.3945	0.1364
##	1561	BRIGHT	26.1234	25.4088	24.5988	24.4020	24.2575	24.1353	0.8100	0.1968
##	1562	FAINT	27.4390	27.6907	27.3023	26.7646	26.8078	26.5744	0.3884	0.5377
##	1563	BRIGHT	25.2543	25.0504	24.2856	23.4068	22.9464	22.7714	0.7648	0.8788
##	1564	FAINT	26.8655	26.9326	26.4684	25.8361	25.6817	24.8647	0.4642	0.6323
##	1565	BRIGHT	27.2650	25.1084	23.4900	22.2362	21.7566	21.4098	1.6184	1.2538
##	1566	FAINT	27.1487	25.9799	25.4003	25.2438	25.1345	24.8715	0.5796	0.1565
##	1567	BRIGHT	22.4385	22.4058	21.1125	20.5893	20.2890	20.0917	0.9333	0.5232
##	1568	FAINT	29.1812	28.0205	26.0115	25.0039	23.9879	23.4363	2.0090	1.0076
##	1569	FAINT	28.7512	28.8807	27.8067	26.9670	27.4358	27.9870	1.0740	0.8397
##	1570	FAINT	26.1629	25.8366	25.6840	25.4972	24.9158	24.9863	0.1526	0.1868
##	1571	BRIGHT	25.5856	25.5643	24.8988	24.7173	24.7878	24.4227	0.6655	0.1815
##	1572	FAINT	27.8834	27.0784	25.7639	25.2175	24.8224	24.2716	1.3145	0.5464
##	1573	FAINT	28.9777	26.5848	25.6412	25.0091	24.8724	24.7175	0.9436	0.6321
##	1574	FAINT	28.0234	27.4451	27.0241	26.8204	26.3316	25.8510	0.4210	0.2037
##	1575	BRIGHT	25.6236	24.9294	24.5416	24.2664	24.4202	24.4116	0.3878	0.2752
##	1576	FAINT	26.9572	26.8741	25.8472	25.3478	25.2868	24.7218	1.0269	0.4994
##	1577	BRIGHT	24.5934	22.9068	21.3701	20.7091	20.4037	20.1565	1.5367	0.6610
##	1578	BRIGHT	25.3958	25.2701	24.7985	24.0494	23.7509	23.6394	0.4716	0.7491
##	1579	BRIGHT	24.8127	24.0556	23.7798	23.5636	23.5353	23.5657	0.2758	0.2162
##	1580	FAINT	27.7764	27.0549	26.8474	26.3348	25.3467	24.6262	0.2075	0.5126
##	1581	FAINT	28.5620	27.0695	26.2728	26.1031	26.2007	26.2992	0.7967	0.1697
##	1582	FAINT	26.3943	26.4012	25.6539	25.2034	24.5637	24.2982	0.7473	0.4505
##	1583	FAINT	27.0797	27.0515	26.8997	26.3009	25.9627	25.9298	0.1518	0.5988
##	1584	FAINT	28.2613	28.0587	27.1897	26.8973	27.3468	26.0596	0.8690	0.2924
##	1585	FAINT	28.2558	28.4561	27.3133	26.7514	26.9933	27.2853	1.1428	0.5619
##	1586	FAINT	28.6127	28.1689	26.9526	26.6032	26.2515	25.7399	1.2163	0.3494
##	1587	FAINT	28.0053	28.0264	27.2557	26.9511	26.8011	26.4520	0.7707	0.3046
##	1588	FAINT	27.8147	26.7130	26.1542	25.6478	25.6065	25.1749	0.5588	0.5064
##	1589	FAINT	27.4240	27.2966	26.6670	26.0698	25.9013	25.6703	0.6296	0.5972
##	1590	BRIGHT	26.7132	25.9683	25.2886	24.1687	23.5141	22.6131	0.6797	1.1199
##	1591	BRIGHT	25.6882	24.5432	24.0845	23.8168	23.7000	23.5846	0.4587	0.2677
##	1592	BRIGHT	26.5479	25.9919	25.0585	24.5434	24.4893	24.1671	0.9334	0.5151
##	1593	FAINT	28.2307	28.6145	26.9561	25.1407	24.4369	23.3834	1.6584	1.8154
##	1594	FAINT	27.5854	27.0906	26.3858	25.5902	25.4607	25.2322	0.7048	0.7956
##	1595	BRIGHT	26.8347	25.1903	23.6188	22.4685	22.0677	21.7278	1.5715	1.1503
##	1596	FAINT	27.0871	27.0572	26.2036	25.4418	24.7834	23.9196	0.8536	0.7618
##	1597	FAINT	28.6775	28.4709	26.9981	25.9371	24.9085	24.4715	1.4728	1.0610
##	1598	FAINT	30.5084	27.5597	27.1021	26.4094	26.6267	25.3854	0.4576	0.6927
##	1599	BRIGHT	23.2925	22.5732	22.0962	21.8428	21.8194	21.7429	0.4770	0.2534

##	1600	FAINT	30.1889	27.0859	26.5761	26.2839	26.1449	25.5702	0.5098	0.2922
##	1601	FAINT	26.6006	26.5783	26.3947	26.1141	25.8809	25.7604	0.1836	0.2806
##	1602	BRIGHT	27.0545	26.0971	24.6795	23.6891	23.3850	23.1187	1.4176	0.9904
##	1603	BRIGHT	23.6297	22.8719	22.4259	22.2086	22.2087	22.1550	0.4460	0.2173
##	1604	FAINT	28.9594	27.0649	26.5269	26.0843	25.9934	27.4078	0.5380	0.4426
##	1605	BRIGHT	26.2237	25.5723	24.1644	22.9490	22.2965	21.9902	1.4079	1.2154
##	1606	FAINT	27.0989	27.0566	26.5245	25.9999	25.4540	25.3271	0.5321	0.5246
##	1607	FAINT	26.9737	26.8020	26.2736	26.0772	25.7277	24.7951	0.5284	0.1964
##	1608	BRIGHT	25.7606	25.8133	25.1794	24.6269	23.9850	23.7305	0.6339	0.5525
##	1609	FAINT	27.6833	27.0064	26.4621	26.3435	26.1232	26.8843	0.5443	0.1186
##	1610	FAINT	27.4034	26.7828	26.0252	25.2029	24.9487	24.9048	0.7576	0.8223
##	1611	FAINT	27.5386	26.5034	25.8587	25.2535	24.5192	23.9586	0.6447	0.6052
##	1612	BRIGHT	22.5803	22.0781	21.2259	20.7531	20.5822	20.3015	0.8522	0.4728
##	1613	BRIGHT	26.0707	25.5598	24.6779	24.2417	24.0915	23.9720	0.8819	0.4362
##	1614	FAINT	26.9862	27.3324	26.9252	26.4771	25.9931	26.0509	0.4072	0.4481
##	1615	FAINT	27.7459	27.9782	26.7151	26.1324	26.1160	25.4863	1.2631	0.5827
##	1616	BRIGHT	22.8318	21.3637	20.5607	20.0058	19.7940	19.5094	0.8030	0.5549
##	1617	BRIGHT	21.1363	20.4707	19.9883	19.7765	19.6777	19.6163	0.4824	0.2118
##	1618	BRIGHT	23.6404	23.2919	22.6028	22.3417	22.1708	22.0905	0.6891	0.2611
##	1619	FAINT	26.6502	26.0427	25.3706	25.1488	24.8730	24.4625	0.6721	0.2218
##	1620	BRIGHT	25.8589	25.2689	24.3913	23.6683	22.9798	22.6094	0.8776	0.7230
##	1621	FAINT	27.0936	26.6616	26.5719	26.0431	26.0308	25.8140	0.0897	0.5288
##	1622	FAINT	28.3224	27.1952	27.0078	26.4829	26.3403	25.0405	0.1874	0.5249
##	1623	FAINT	26.3847	26.2928	26.0215	25.9751	25.9078	25.0870	0.2713	0.0464
##	1624	FAINT	27.7444	28.3920	27.9766	26.9726	26.2543	26.3814	0.4154	1.0040
##	1625	FAINT	28.4756	28.5484	27.3594	26.4624	25.9639	25.4747	1.1890	0.8970
##	1626	FAINT	30.0499	28.6162	27.5667	26.7488	26.1249	27.2433	1.0495	0.8179
##	1627	FAINT	26.4688	26.4729	26.1557	25.6984	25.5395	26.1141	0.3172	0.4573
##	1628	FAINT	29.8768	28.1234	27.3120	26.2083	26.2559	25.4234	0.8114	1.1037
##	1629	FAINT	27.4149	27.1453	26.6477	26.2558	25.7509	25.5154	0.4976	0.3919
##	1630	FAINT	28.6847	27.9837	27.0638	26.4178	25.4503	25.2810	0.9199	0.6460
##	1631	FAINT	26.2549	26.1157	25.6975	25.8738	25.4405	26.7159	0.4182	-0.1763
##	1632	FAINT	28.6849	28.8143	28.9069	26.7807	25.7296	25.4841	-0.0926	2.1262
##	1633	FAINT	27.1656	27.2186	26.5935	26.5009	25.8507	26.1262	0.6251	0.0926
##	1634	FAINT	27.8789	27.7811	26.7732	26.5909	26.1299	28.8292	1.0079	0.1823
##	1635	BRIGHT	25.4886	25.1450	24.5726	24.0031	23.8250	23.6450	0.5724	0.5695
##	1636	FAINT	30.9636	30.1373	28.2282	26.9811	26.3178	26.2027	1.9091	1.2471
##	1637	BRIGHT	25.2228	25.0900	24.8270	24.4255	24.0786	23.6112	0.2630	0.4015
##	1638	FAINT	27.0538	26.3971	25.6498	25.4923	25.1206	25.3443	0.7473	0.1575
##	1639	FAINT	26.1572	26.4707	25.7362	25.5876	25.1835	25.8635	0.7345	0.1486
##	1640	FAINT	25.8419	25.8335	25.6522	25.2514	24.6829	24.2918	0.1813	0.4008
##	1641	BRIGHT	26.7604	25.6513	25.0731	24.8653	24.8517	24.5789	0.5782	0.2078
##	1642	FAINT	27.0611	26.9820	26.1400	25.6014	25.5554	25.2876	0.8420	0.5386
##	1643	BRIGHT	26.2723	25.7697	24.8899	23.9734	23.2990	22.9816	0.8798	0.9165
##	1644	FAINT	26.7576	26.7701	26.2211	25.8521	25.7580	25.0978	0.5490	0.3690
##	1645	FAINT	25.8144	25.6390	25.5235	25.2250	25.0374	24.4871	0.1155	0.2985
##	1646	BRIGHT	28.5352	27.4616	25.0887	23.9205	22.8718	22.1406	2.3729	1.1682
##	1647	BRIGHT	30.4239	27.2844	25.6749	24.2168	23.4881	22.4588	1.6095	1.4581
##	1648	BRIGHT	24.9041	23.4686	22.0408	21.4672	21.1153	20.8494	1.4278	0.5736
##	1649	FAINT	29.5226	27.9192	27.1765	26.0826	25.3619	25.3862	0.7427	1.0939
##	1650	BRIGHT	23.5353	22.5922	21.7809	21.5257	21.2847	21.2674	0.8113	0.2552
##	1651	BRIGHT	25.9292	25.5818	24.8732	24.0348	23.8918	23.6240	0.7086	0.8384
##	1652	BRIGHT	25.9123	25.1684	24.4218	23.8919	23.3380	22.9544	0.7466	0.5299
##	1653	FAINT	26.5405	26.2503	25.8099	25.3623	24.7586	24.5592	0.4404	0.4476
##	1654	FAINT	27.4352	27.0799	27.2690	26.9793	27.1477	26.6312	-0.1891	0.2897
##	1655	FAINT	27.6187	27.0097	26.3808	25.9789	25.7320	26.3219	0.6289	0.4019
##	1656	BRIGHT	26.1275	25.9901	25.0068	24.5648	24.3004	24.0816	0.9833	0.4420
##	1657	FAINT	27.6137	27.6931	26.7163	26.3236	25.8580	26.1522	0.9768	0.3927
##	1658	FAINT	27.3979	27.2299	26.7117	26.5892	25.8088	26.0058	0.5182	0.1225
##	1659	BRIGHT	23.5885	22.8461	22.0503	21.8047	21.5384	21.4479	0.7958	0.2456
##	1660	BRIGHT	26.5383	25.5022	24.7744	24.4456	24.2628	23.9761	0.7278	0.3288
##	1661	FAINT	27.3051	26.6013	25.6115	25.2217	25.0600	25.2957	0.9898	0.3898
##	1662	FAINT	26.4046	26.1914	25.6693	25.1563	24.5546	24.4766	0.5221	0.5130
##	1663	FAINT	30.0862	28.1270	26.9964	26.7974	26.6960	26.6259	1.1306	0.1990
##	1664	FAINT	27.5785	27.3786	26.3215	26.0339	25.9400	25.9495	1.0571	0.2876
##	1665	FAINT	27.0597	26.6255	25.6865	25.0178	24.5171	24.3410	0.9390	0.6687
##	1666	BRIGHT	24.2936	23.7262	23.1882	22.9205	22.8188	22.7583	0.5380	0.2677
##	1667	BRIGHT	26.7673	26.1060	24.7839	24.2238	23.9822	23.7994	1.3221	0.5601
##	1668	FAINT	26.9916	26.5482	26.4303	25.6863	25.3957	25.0438	0.1179	0.7440
##	1669	FAINT	28.6507	27.9035	27.2270	26.8668	25.9675	25.5340	0.6765	0.3602
##	1670	FAINT	28.0004	26.8475	26.7702	26.4552	26.1919	25.3300	0.0773	0.3150
##	1671	BRIGHT	25.3137	25.4244	25.1061	24.6209	24.3242	23.9239	0.3183	0.4852
##	1672	FAINT	29.2943	29.2599	27.9203	26.5547	26.1940	25.8377	1.3396	1.3656
##	1673	FAINT	26.5287	26.5161	25.8264	25.1910	24.7666	24.1692	0.6897	0.6354
##	1674	BRIGHT	25.8596	25.2704	24.5391	24.0975	24.0009	23.8922	0.7313	0.4416
##	1675	FAINT	27.0786	26.5465	26.3371	26.1146	25.5487	25.0052	0.2094	0.2225
##	1676	BRIGHT	27.1307	25.7924	24.1524	22.9915	22.5762	22.2262	1.6400	1.1609
##	1677	FAINT	28.2566	27.6029	27.7583	26.5684	26.0461	26.4079	-0.1554	1.1899
##	1678	FAINT	27.4010	26.8619	26.0746	25.5900	24.9913	24.5563	0.7873	0.4846

##	1679	BRIGHT	27.1030	25.9004	24.9442	24.6717	24.4943	24.4964	0.9562	0.2725
##	1680	FAINT	27.8112	28.0929	26.9203	26.9316	26.3849	25.6430	1.1726	-0.0113
##	1681	FAINT	28.4900	29.5875	27.5539	26.4663	26.0937	26.8606	2.0336	1.0876
##	1682	FAINT	27.7499	26.8243	26.7387	26.3786	25.5740	26.3572	0.0856	0.3601
##	1683	BRIGHT	27.1145	26.5000	25.6408	24.8737	24.6243	24.2129	0.8592	0.7671
##	1684	FAINT	27.0627	26.9064	26.9913	26.8171	26.5265	28.2726	-0.0849	0.1742
##	1685	FAINT	28.3526	27.9045	27.2930	26.8733	26.4808	26.5835	0.6115	0.4197
##	1686	FAINT	27.2626	27.1616	26.6254	26.4945	26.1787	25.3663	0.5362	0.1309
##	1687	BRIGHT	29.0110	26.1841	24.6919	24.0475	23.7223	23.4537	1.4922	0.6444
##	1688	FAINT	28.7109	27.8269	27.9648	26.8700	27.5431	26.7561	-0.1379	1.0948
##	1689	BRIGHT	25.9031	25.3985	24.7431	24.6315	24.3534	24.5432	0.6554	0.1116
##	1690	FAINT	27.0515	26.5478	25.9050	25.6457	25.4389	25.2394	0.6428	0.2593
##	1691	FAINT	28.7132	29.1046	27.5893	26.5130	26.6552	25.5467	1.5153	1.0763
##	1692	FAINT	29.9585	29.1956	27.6127	26.9440	26.7612	26.8393	1.5829	0.6687
##	1693	FAINT	29.7802	26.4064	25.8744	25.7653	25.6713	26.4551	0.5320	0.1091
##	1694	FAINT	27.6534	26.8158	25.4790	25.0177	24.7684	24.6948	1.3368	0.4613
##	1695	FAINT	27.4765	26.6469	25.9238	25.6000	25.4447	25.2306	0.7231	0.3238
##	1696	BRIGHT	23.7571	22.1921	20.6919	19.9896	19.6521	19.3608	1.5002	0.7023
##	1697	FAINT	26.7688	26.7117	25.8724	25.4361	25.3896	25.2223	0.8393	0.4363
##	1698	FAINT	27.7378	27.1338	27.1076	26.7100	27.2524	26.4026	0.0262	0.3976
##	1699	FAINT	27.5886	26.8929	25.7508	25.0629	24.9389	25.0489	1.1421	0.6879
##	1700	BRIGHT	22.6744	21.7534	20.7757	20.4754	20.2217	20.1440	0.9777	0.3003
##	1701	FAINT	26.7281	26.3448	25.7488	25.6698	25.5069	25.1204	0.5960	0.0790
##	1702	BRIGHT	27.1866	26.7169	25.7995	24.8364	24.6291	24.3451	0.9174	0.9631
##	1703	BRIGHT	23.2302	22.1864	20.9768	20.5287	20.2629	20.1222	1.2096	0.4481
##	1704	FAINT	26.8633	26.7813	25.9474	25.2033	24.4923	23.9461	0.8339	0.7441
##	1705	FAINT	28.3584	28.0108	27.2999	26.5004	26.1439	25.5976	0.7109	0.7995
##	1706	FAINT	28.2257	28.5219	27.6888	25.6460	24.7784	23.9427	0.8331	2.0428
##	1707	FAINT	27.2501	27.9725	27.0398	26.2067	25.7663	25.4676	0.9327	0.8331
##	1708	FAINT	26.7008	27.6713	26.8757	26.8263	26.6481	26.2503	0.7956	0.0494
##	1709	FAINT	28.3956	27.6111	26.6799	26.4113	26.7822	26.0636	0.9312	0.2686
##	1710	FAINT	29.5911	28.2868	27.9716	26.7266	26.4559	26.7662	0.3152	1.2450
##	1711	BRIGHT	24.6993	23.9574	23.1218	22.4690	22.3309	22.2222	0.8356	0.6528
##	1712	FAINT	26.3675	26.1974	25.9663	25.7499	25.4209	24.9521	0.2311	0.2164
##	1713	BRIGHT	25.1256	24.6402	24.0862	23.9380	23.7893	23.7007	0.5540	0.1482
##	1714	FAINT	27.3421	27.4444	26.8413	26.2945	25.4335	25.6222	0.6031	0.5468
##	1715	BRIGHT	27.8422	27.6183	26.0821	24.9774	24.5181	24.0239	1.5362	1.1047
##	1716	BRIGHT	24.0204	23.4581	22.2477	21.7218	21.4045	20.9874	1.2104	0.5259
##	1717	FAINT	27.3487	26.9394	26.7606	26.6955	27.0283	26.2249	0.1788	0.0651
##	1718	FAINT	28.2531	28.4509	26.8716	25.8454	25.3076	24.8898	1.5793	1.0262
##	1719	BRIGHT	24.5668	23.7643	22.8899	22.2811	22.1428	21.9773	0.8744	0.6088
##	1720	FAINT	25.9605	25.9034	25.9139	25.8265	25.6177	25.1494	-0.0105	0.0874
##	1721	BRIGHT	22.9915	22.2584	21.9472	21.7004	21.7008	21.5818	0.3112	0.2468
##	1722	BRIGHT	23.5121	23.2676	22.5940	21.8031	21.0569	20.6409	0.6736	0.7909
##	1723	BRIGHT	24.8578	23.9164	22.9897	22.6958	22.4264	22.3532	0.9267	0.2939
##	1724	BRIGHT	21.4265	20.7603	19.9376	19.7082	19.4221	19.3629	0.8227	0.2294
##	1725	BRIGHT	25.5277	24.4924	23.1701	22.6231	22.3117	22.1076	1.3223	0.5470
##	1726	FAINT	27.8346	27.7681	27.6365	26.8914	26.9309	26.0012	0.1316	0.7451
##	1727	FAINT	30.1856	27.1625	27.2861	26.6631	26.6766	27.0978	-0.1236	0.6230
##	1728	FAINT	28.4511	28.2173	27.3744	26.2744	25.5012	25.1970	0.8429	1.1000
##	1729	BRIGHT	26.1707	24.6701	23.1698	22.2116	21.9008	21.6454	1.5003	0.9582
##	1730	BRIGHT	25.6734	25.5025	25.1555	24.6064	24.1236	23.9583	0.3470	0.5491
##	1731	BRIGHT	25.9325	25.1614	24.0662	23.0567	22.7032	22.3687	1.0952	1.0095
##	1732	FAINT	28.9047	27.9533	27.4846	26.9594	26.2553	26.0701	0.4687	0.5252
##	1733	FAINT	26.8288	26.3024	25.5715	25.4227	25.4114	25.2667	0.7309	0.1488
##	1734	BRIGHT	25.7777	25.4986	25.1797	24.7824	24.0372	23.7781	0.3189	0.3973
##	1735	FAINT	27.9095	26.6925	26.2673	26.3658	25.7161	26.4637	0.4252	-0.0985
##	1736	FAINT	26.4834	26.9347	26.5960	26.6684	26.8362	26.2417	0.3387	-0.0724
##	1737	FAINT	29.6938	29.0110	27.8627	26.5570	26.0383	26.1254	1.1483	1.3057
##	1738	FAINT	28.3794	27.1559	26.3472	25.5001	24.9196	25.0420	0.8087	0.8471
##	1739	BRIGHT	27.3627	25.9020	24.1341	22.9448	22.2176	21.9053	1.7679	1.1893
##	1740	FAINT	26.6318	26.5780	26.4940	26.1415	25.8265	25.6711	0.0840	0.3525
##	1741	BRIGHT	26.1857	25.1266	24.6633	24.3110	24.3051	24.2208	0.4633	0.3523
##	1742	BRIGHT	26.9697	26.7252	24.7234	23.6176	22.7566	22.4190	2.0018	1.1058
##	1743	BRIGHT	25.1070	23.4987	22.2319	21.7440	21.4574	21.2583	1.2668	0.4879
##	1744	FAINT	26.5871	26.7559	25.7326	25.0814	24.7863	24.3018	1.0233	0.6512
##	1745	FAINT	29.7822	27.8467	26.2461	25.2297	24.4071	23.5370	1.6006	1.0164
##	1746	FAINT	25.7680	25.6664	25.4220	25.0547	24.7146	24.1856	0.2444	0.3673
##	1747	BRIGHT	25.1054	24.7451	24.0188	23.7231	23.5887	23.2900	0.7263	0.2957
##	1748	FAINT	25.3090	25.1777	25.0552	25.1456	24.9799	24.7136	0.1225	-0.0904
##	1749	FAINT	27.1848	27.3501	27.1958	26.6625	26.0748	26.1636	0.1543	0.5333
##	1750	BRIGHT	22.9802	22.1605	21.5181	21.2481	21.1311	21.0603	0.6424	0.2700
##	1751	BRIGHT	29.5113	27.3391	25.5680	24.5183	23.4772	22.9119	1.7711	1.0497
##	1752	FAINT	32.2899	29.3867	27.8099	26.8592	26.0537	26.4163	1.5768	0.9507
##	1753	BRIGHT	24.7308	23.9022	22.6750	21.7356	21.3770	21.0575	1.2272	0.9394
##	1754	FAINT	26.2962	26.2395	25.6346	25.1549	25.0559	24.7381	0.6049	0.4797
##	1755	FAINT	28.0399	27.5231	26.7835	26.4404	26.8793	26.2323	0.7396	0.3431
##	1756	BRIGHT	25.5410	24.8252	23.8623	23.0715	22.8027	22.5758	0.9629	0.7908
##	1757	FAINT	27.2710	26.8459	26.2057	25.4715	25.1839	24.8837	0.6402	0.7342

##	1758	FAINT	27.1771	27.2547	26.6997	26.0507	25.2654	24.5948	0.5550	0.6490
##	1759	FAINT	28.3254	27.1444	27.0039	26.4257	26.2104	25.5394	0.1405	0.5782
##	1760	FAINT	28.2305	27.5247	26.7877	26.1069	25.7708	27.4268	0.7370	0.6808
##	1761	FAINT	26.8700	27.0206	25.9534	25.2055	24.6953	24.6417	1.0672	0.7479
##	1762	BRIGHT	26.7488	26.6317	25.4326	24.4576	24.0634	23.8511	1.1991	0.9750
##	1763	FAINT	26.4223	26.1906	25.6510	25.1713	24.6679	23.8813	0.5396	0.4797
##	1764	FAINT	29.2080	26.7630	26.2551	25.1545	24.5110	23.5015	0.5079	1.1006
##	1765	FAINT	28.2172	27.5354	26.6192	25.9120	25.6964	25.5029	0.9162	0.7072
##	1766	FAINT	27.2014	26.9668	26.7481	26.3139	25.5640	25.9524	0.2187	0.4342
##	1767	BRIGHT	27.3625	26.3757	27.7019	23.5274	22.9215	22.5713	1.6738	1.1745
##	1768	FAINT	28.5938	28.4344	28.3280	26.9567	27.3414	26.1092	0.1064	1.3713
##	1769	FAINT	26.2480	26.0782	25.8624	25.8181	25.8316	25.3267	0.2158	0.0443
##	1770	BRIGHT	26.3913	25.5543	24.1899	23.7259	23.3478	23.2675	1.3644	0.4640
##	1771	FAINT	28.4200	29.7661	27.8352	26.8448	26.1442	25.7938	1.9309	0.9904
##	1772	BRIGHT	25.6348	25.5335	25.0433	24.6623	23.9808	23.6394	0.4902	0.3810
##	1773	FAINT	26.4166	26.5036	25.9401	25.4880	25.4173	25.4558	0.5635	0.4521
##	1774	FAINT	26.7232	26.8847	26.7293	26.0805	25.7725	25.0955	0.1554	0.6488
##	1775	BRIGHT	25.2793	25.0494	24.5602	24.3296	24.2552	24.1403	0.4892	0.2306
##	1776	BRIGHT	27.3626	26.7908	25.1273	23.9694	23.0565	22.3283	1.6635	1.1579
##	1777	BRIGHT	26.7068	26.2921	25.6334	24.9551	24.7638	24.5286	0.6587	0.6783
##	1778	FAINT	28.1326	28.6743	27.4580	26.7962	26.2815	25.1183	1.2163	0.6618
##	1779	FAINT	26.5028	26.1994	25.3905	25.1497	25.0160	24.8775	0.8089	0.2408
##	1780	FAINT	27.7052	27.8089	27.2410	26.6636	25.7758	25.0152	0.5679	0.5774
##	1781	BRIGHT	26.4650	25.6821	25.0182	24.7543	24.6937	24.2685	0.6639	0.2639
##	1782	FAINT	27.2944	26.9799	27.1373	26.5414	26.7417	26.2101	-0.1574	0.5959
##	1783	FAINT	26.9571	26.7063	25.8328	25.2666	25.1919	25.1529	0.8735	0.5662
##	1784	FAINT	28.1121	26.6219	26.0079	25.6091	25.5310	25.5674	0.6140	0.3988
##	1785	FAINT	25.3035	25.7176	25.7546	25.8383	25.9774	25.5483	-0.0370	-0.0837
##	1786	FAINT	26.8674	26.4367	26.0663	25.9329	25.3935	25.3906	0.3704	0.1334
##	1787	BRIGHT	29.4327	24.8673	23.1172	21.7780	21.2398	20.8499	1.7501	1.3392
##	1788	FAINT	28.5472	28.0343	27.1754	26.2569	25.3630	24.8072	0.8589	0.9185
##	1789	FAINT	30.0277	27.4656	26.9520	26.7563	26.5984	27.8813	0.5136	0.1957
##	1790	FAINT	28.5808	27.7329	26.3579	25.9162	25.6279	25.6836	1.3750	0.4417
##	1791	FAINT	26.1568	26.3971	26.2479	26.1467	25.8839	25.5501	0.1492	0.1012
##	1792	FAINT	27.7440	28.6449	28.0104	26.9558	26.6164	26.5568	0.6345	1.0546
##	1793	FAINT	26.2138	26.1397	25.9374	25.3903	25.2280	25.1529	0.2023	0.5471
##	1794	FAINT	28.3196	28.2546	27.1562	26.7813	26.3951	25.4245	1.0984	0.3749
##	1795	FAINT	29.4215	26.7735	25.9080	25.4256	24.6872	24.3139	0.8655	0.4824
##	1796	BRIGHT	26.7299	26.2303	25.1933	24.1123	23.7109	23.6483	1.0370	1.0810
##	1797	BRIGHT	26.0515	25.7862	25.2145	24.5587	24.0872	24.0108	0.5717	0.6558
##	1798	FAINT	27.6353	26.8292	26.0476	25.6470	25.0891	24.6549	0.7816	0.4006
##	1799	FAINT	27.1514	27.5773	27.2712	26.8335	27.1827	25.5011	0.3061	0.4377
##	1800	BRIGHT	24.7328	24.0860	23.3669	23.2205	23.0639	23.0867	0.7191	0.1464
##	1801	FAINT	26.1341	25.8511	25.9266	25.8695	26.4220	26.8375	-0.0755	0.0571
##	1802	FAINT	28.4832	28.3897	26.1796	25.1198	24.3150	23.8491	2.2101	1.0598
##	1803	BRIGHT	26.2890	25.7859	24.8093	24.2680	24.0471	23.9046	0.9766	0.5413
##	1804	FAINT	27.1421	26.7640	26.0313	25.8298	25.5292	25.6321	0.7327	0.2015
##	1805	FAINT	29.6223	27.0421	25.9009	25.2289	25.2921	24.7619	1.1412	0.6720
##	1806	FAINT	27.5037	27.2274	26.8484	26.4068	26.2083	25.4951	0.3790	0.4416
##	1807	BRIGHT	26.3110	25.8251	25.0867	24.7817	24.5608	24.4421	0.7384	0.3050
##	1808	BRIGHT	26.1374	25.8882	25.3560	24.6214	24.2408	24.1612	0.5322	0.7346
##	1809	BRIGHT	23.5416	23.1693	22.4493	21.9201	21.8280	21.7160	0.7200	0.5292
##	1810	FAINT	26.8179	26.3165	26.2362	25.8332	25.2697	25.3175	0.0803	0.4030
##	1811	FAINT	27.2224	26.9642	26.5129	26.3380	26.6850	25.6202	0.4513	0.1749
##	1812	FAINT	29.3111	27.8003	27.2709	26.4618	25.7603	26.1058	0.5294	0.8091
##	1813	FAINT	27.7092	27.4213	26.8196	26.2550	26.2496	26.0100	0.6017	0.5646
##	1814	BRIGHT	26.0956	25.7273	24.9765	24.3443	24.2317	23.9291	0.7508	0.6322
##	1815	BRIGHT	23.9660	23.5923	22.9390	22.3384	22.1784	22.0076	0.6533	0.6006
##	1816	FAINT	29.1696	28.4290	28.0389	26.7441	26.4809	26.4281	0.3901	1.2948
##	1817	BRIGHT	27.8697	26.8245	25.9504	24.9383	24.6726	24.4441	0.8741	1.0121
##	1818	BRIGHT	25.7282	25.1141	24.1389	23.5186	23.3438	23.1207	0.9752	0.6203
##	1819	FAINT	27.1928	26.5631	25.5649	25.2731	25.1494	24.9041	0.9982	0.2918
##	1820	FAINT	28.9796	27.1653	26.9017	26.9956	26.7499	25.8312	0.2636	-0.0939
##	1821	FAINT	27.4880	28.5305	27.0497	26.4199	26.4115	26.5689	1.4808	0.6298
##	1822	BRIGHT	27.6217	27.0065	25.4986	24.4071	23.9579	23.6351	1.5079	1.0915
##	1823	FAINT	29.1365	28.0217	27.1248	26.3523	26.2834	25.3915	0.8969	0.7725
##	1824	FAINT	27.3385	26.7924	26.1650	25.6649	25.4607	25.1161	0.6274	0.5001
##	1825	FAINT	27.7698	32.0061	27.8756	26.9417	26.9115	25.9964	4.1305	0.9339
##	1826	BRIGHT	26.1136	25.8107	25.2267	24.3869	23.7608	23.3849	0.5840	0.8398
##	1827	BRIGHT	25.0249	24.8752	24.3727	23.7446	23.4671	23.2855	0.5025	0.6281
##	1828	BRIGHT	24.4277	24.0711	23.2274	22.6386	22.4543	22.2921	0.8437	0.5888
##	1829	BRIGHT	24.1374	22.1437	20.5673	19.9751	19.6583	19.4766	1.5764	0.5922
##	1830	FAINT	27.5657	27.2199	26.6998	26.0883	25.7923	25.7952	0.5201	0.6115
##	1831	FAINT	27.4719	27.1600	26.3151	26.2460	25.9342	26.0535	0.8449	0.0691
##	1832	BRIGHT	26.5067	25.9635	24.9517	24.2892	23.4733	23.0963	1.0118	0.6625
##	1833	FAINT	27.5951	26.4733	25.7698	25.3121	24.6554	24.0974	0.7035	0.4577
##	1834	FAINT	28.7955	27.8677	27.1599	26.7499	26.9575	26.4087	0.7078	0.4100
##	1835	BRIGHT	25.5936	25.2504	24.3342	23.3444	22.8017	22.5201	0.9162	0.9898
##	1836	FAINT	28.4414	26.8200	26.1112	25.2941	24.6515	24.8722	0.7088	0.8171

##	1837	FAINT	28.8656	29.2612	27.8579	26.4999	25.5586	25.4304	1.4033	1.3580
##	1838	FAINT	29.8618	27.4440	26.6642	25.7736	25.4584	25.1025	0.7798	0.8906
##	1839	FAINT	27.1416	27.2484	26.8078	26.1611	25.8044	25.0454	0.4406	0.6467
##	1840	FAINT	26.6245	26.4638	26.2275	25.9023	25.4926	25.2662	0.2363	0.3252
##	1841	FAINT	27.3956	27.8387	26.7605	26.1849	26.6703	25.5685	1.0782	0.5756
##	1842	FAINT	28.9754	28.1504	26.4098	25.4379	24.4953	23.9023	1.7406	0.9719
##	1843	BRIGHT	23.9095	23.0164	21.9142	21.0263	20.7622	20.5322	1.1022	0.8879
##	1844	BRIGHT	23.6988	23.6742	23.6549	23.3779	23.1600	22.9516	0.0193	0.2770
##	1845	FAINT	27.6950	27.9889	27.7901	26.9763	26.6869	26.5973	0.1988	0.8138
##	1846	BRIGHT	26.8322	26.0367	25.2606	24.7893	24.6147	24.7201	0.7761	0.4713
##	1847	BRIGHT	26.5083	26.5176	25.6136	24.7671	23.8888	23.2779	0.9040	0.8465
##	1848	FAINT	27.9486	26.8605	26.1318	25.9427	25.8825	25.0277	0.7287	0.1891
##	1849	FAINT	27.8311	27.2473	26.3728	25.7019	24.8779	24.3652	0.8745	0.6709
##	1850	BRIGHT	23.8862	23.8703	23.7813	23.7384	23.5599	23.2423	0.0890	0.0429
##	1851	BRIGHT	25.8210	24.6989	23.1828	22.3001	21.9696	21.7059	1.5161	0.8827
##	1852	FAINT	28.6241	28.4547	27.5866	26.4978	26.4764	26.1993	0.8681	1.0888
##	1853	FAINT	26.9564	25.9835	25.5325	25.4406	25.3660	25.2729	0.4510	0.0919
##	1854	FAINT	25.9443	25.8430	25.8402	25.6235	25.3291	25.1618	0.0028	0.2167
##	1855	FAINT	26.6432	26.5165	26.4466	26.4272	26.1284	25.9174	0.0699	0.0194
##	1856	FAINT	28.0359	27.6120	27.1034	26.4213	25.6692	25.4162	0.5086	0.6821
##	1857	FAINT	26.7343	26.9644	26.7326	26.7461	26.9012	25.9679	0.2318	-0.0135
##	1858	FAINT	27.4533	27.2072	26.0088	25.7062	25.7089	26.3157	1.1984	0.3026
##	1859	FAINT	28.2837	28.2996	27.3166	26.1556	25.3297	24.6515	0.9830	1.1610
##	1860	BRIGHT	33.5355	26.5303	24.9271	23.7639	23.1244	22.7792	1.6032	1.1632
##	1861	FAINT	29.7215	28.7737	27.9055	26.7710	26.0397	25.5478	0.8682	1.1345
##	1862	BRIGHT	25.1756	24.5291	24.0223	23.8661	23.6853	23.6123	0.5068	0.1562
##	1863	FAINT	27.5335	26.4883	26.0558	25.7646	25.7342	25.6681	0.4325	0.2912
##	1864	FAINT	27.2448	26.8800	26.7012	26.5546	25.8819	25.6466	0.1788	0.1466
##	1865	FAINT	30.1723	27.3522	26.9852	26.7483	26.1138	25.6189	0.3670	0.2369
##	1866	FAINT	26.0937	26.4003	26.1994	26.6510	26.3206	25.8234	0.2009	-0.4516
##	1867	FAINT	27.0139	26.8742	26.4731	26.0297	25.5729	25.9926	0.4011	0.4434
##	1868	FAINT	27.7215	27.2296	26.9638	26.4902	26.1517	25.4481	0.2658	0.4736
##	1869	FAINT	26.7360	27.9538	26.6539	26.3633	26.2053	25.9862	1.2999	0.2906
##	1870	FAINT	27.3204	26.9114	26.2724	25.8188	25.3826	24.8446	0.6390	0.4536
##	1871	FAINT	28.0399	28.3954	27.4562	26.7425	26.3317	26.4587	0.9392	0.7137
##	1872	FAINT	27.4101	26.5569	25.8002	25.1755	25.1042	24.7137	0.7567	0.6247
##	1873	BRIGHT	22.0813	20.5969	19.8292	19.4560	19.2409	19.0742	0.7677	0.3732
##	1874	FAINT	29.7853	27.6803	26.8662	26.2208	26.0497	25.2857	0.8141	0.6454
##	1875	FAINT	27.2464	26.7570	25.7093	25.4427	25.3285	24.9792	1.0477	0.2666
##	1876	FAINT	26.9412	26.4924	25.5884	25.3389	25.2477	24.9493	0.9040	0.2495
##	1877	FAINT	27.6373	27.3801	26.2954	26.1564	25.7906	25.2799	1.0847	0.1390
##	1878	FAINT	32.6125	28.2929	28.0277	26.8971	27.2986	27.3471	0.2652	1.1306
##	1879	FAINT	26.0642	25.6569	25.2014	25.2020	24.9439	25.3162	0.4555	-0.0006
##	1880	FAINT	28.6077	27.9750	27.0688	26.6315	26.3465	25.1599	0.9062	0.4373
##	1881	FAINT	28.2618	27.8091	26.7194	26.4443	26.0354	25.6211	1.0897	0.2751
##	1882	BRIGHT	26.2391	25.8386	25.2044	24.7944	24.7554	24.3937	0.6342	0.4100
##	1883	FAINT	27.0681	27.0130	26.6614	26.0777	25.5809	25.0847	0.3516	0.5837
##	1884	FAINT	30.4210	27.5194	26.8222	26.5205	26.7355	26.2567	0.6972	0.3017
##	1885	FAINT	28.7940	29.0596	27.6416	26.7417	25.9722	25.8253	1.4180	0.8999
##	1886	BRIGHT	26.2653	25.6947	25.0861	24.8784	24.7821	24.7413	0.6086	0.2077
##	1887	FAINT	29.6927	28.1327	27.3691	25.8181	25.1275	24.2129	0.7636	1.5510
##	1888	BRIGHT	26.9488	26.2655	25.4054	24.7684	24.5316	24.4234	0.8601	0.6370
##	1889	FAINT	26.4430	26.2017	25.8038	25.2321	24.8828	23.9907	0.3979	0.5717
##	1890	BRIGHT	24.9791	24.6936	24.1665	23.7730	23.2179	22.7933	0.5271	0.3935
##	1891	BRIGHT	23.8008	23.5060	23.4307	23.3306	23.5230	23.4409	0.0753	0.1001
##	1892	FAINT	27.5201	27.6095	27.1119	26.6427	26.2932	25.9954	0.4976	0.4692
##	1893	BRIGHT	25.7632	25.4931	24.9599	24.4139	23.7642	23.2333	0.5332	0.5460
##	1894	BRIGHT	25.6831	25.2543	24.2265	23.7263	23.5741	23.3221	1.0278	0.5002
##	1895	BRIGHT	25.7425	25.5275	24.6942	24.4057	24.1204	24.0338	0.8333	0.2885
##	1896	FAINT	27.4857	26.9124	26.2340	25.9680	25.6207	25.3715	0.6784	0.2660
##	1897	BRIGHT	26.5942	26.1787	25.4826	24.6405	23.8949	23.5531	0.6961	0.8421
##	1898	BRIGHT	27.9774	27.0702	24.8706	23.7695	22.8641	22.3975	2.1996	1.1011
##	1899	FAINT	29.1551	28.0467	27.0104	26.8208	26.6171	28.2939	1.0363	0.1896
##	1900	FAINT	31.1120	28.6822	26.9168	25.6932	24.8444	24.1680	1.7654	1.2236
##	1901	FAINT	27.5022	27.3056	26.5329	25.9313	25.5706	25.4253	0.7727	0.6016
##	1902	BRIGHT	24.5100	23.9970	23.1650	22.4986	22.3288	22.1648	0.8320	0.6664
##	1903	FAINT	27.4099	26.8583	26.0924	25.6778	25.4983	25.4746	0.7659	0.4146
##	1904	FAINT	26.5483	26.6043	26.6985	26.7126	27.3769	28.8090	-0.0942	-0.0141
##	1905	BRIGHT	25.0787	24.2433	23.6077	23.3157	23.2007	23.1312	0.6356	0.2920
##	1906	FAINT	28.2219	27.7327	27.1351	26.9237	25.9489	25.7060	0.5976	0.2114
##	1907	FAINT	27.6995	27.7732	27.3600	26.7087	27.1425	28.0874	0.4132	0.6513
##	1908	FAINT	26.4550	26.5890	26.3994	26.0147	25.6546	25.6019	0.1896	0.3847
##	1909	FAINT	27.3812	28.1610	26.9746	26.6057	26.7058	25.6268	1.1864	0.3689
##	1910	FAINT	27.2185	26.9778	26.0588	25.7173	25.3337	25.3825	0.9190	0.3415
##	1911	FAINT	27.6100	27.4617	26.3814	26.0599	25.9649	25.5756	1.0803	0.3215
##	1912	FAINT	29.6028	30.3515	28.4442	26.4630	25.8874	25.1989	1.9073	1.9812
##	1913	BRIGHT	24.2475	23.9739	23.4223	22.7733	21.9753	21.5728	0.5516	0.6490
##	1914	FAINT	28.2274	28.2862	27.1872	26.4046	25.6060	25.0190	1.0990	0.7826
##	1915	FAINT	27.7194	26.9919	26.0622	25.6296	24.7183	24.7680	0.9297	0.4326

##	1916	FAINT	28.0117	29.3536	27.4049	26.9485	25.5305	24.5022	1.9487	0.4564
##	1917	FAINT	26.8029	27.2933	26.7688	26.5372	26.5299	25.7533	0.5245	0.2316
##	1918	FAINT	28.5676	27.9675	26.9081	26.3802	26.0538	25.2130	1.0594	0.5279
##	1919	FAINT	28.4035	27.6894	26.7587	25.9832	25.8643	25.4065	0.9307	0.7755
##	1920	BRIGHT	26.6791	26.4855	25.4054	24.9367	24.6853	24.3993	1.0801	0.4687
##	1921	FAINT	27.7027	27.9111	27.0384	26.1716	25.4789	25.0994	0.8727	0.8668
##	1922	BRIGHT	28.2777	26.4821	25.8355	24.9932	24.4285	24.1667	0.6466	0.8423
##	1923	FAINT	29.4357	28.2793	27.2525	26.7726	26.3112	26.1113	1.0268	0.4799
##	1924	FAINT	26.4675	26.0064	25.3502	25.1944	25.1126	25.1330	0.6562	0.1558
##	1925	FAINT	27.7107	28.0041	27.1102	26.5142	26.2907	26.1221	0.8939	0.5960
##	1926	FAINT	31.4949	26.6263	25.8970	25.3224	24.5041	23.9082	0.7293	0.5746
##	1927	BRIGHT	25.5387	24.8655	23.9331	23.3798	23.1941	22.9785	0.9324	0.5533
##	1928	BRIGHT	26.3885	25.2877	24.6964	24.3750	24.2989	24.0185	0.5913	0.3214
##	1929	FAINT	26.7261	26.3804	26.2678	26.0155	25.9657	25.4581	0.1126	0.2523
##	1930	FAINT	30.0354	27.8609	26.1996	25.3387	24.9724	24.5474	1.6613	0.8609
##	1931	BRIGHT	25.6997	25.3530	24.8285	24.1071	23.6776	23.5168	0.5245	0.7214
##	1932	BRIGHT	26.5880	26.1829	25.5480	24.9524	24.7912	24.6369	0.6349	0.5956
##	1933	BRIGHT	25.1965	24.4414	23.3650	23.0461	22.8449	22.6486	1.0764	0.3189
##	1934	BRIGHT	26.5176	26.4196	25.5305	24.7934	24.3653	24.0778	0.8891	0.7371
##	1935	BRIGHT	25.3129	24.5159	24.1418	23.9569	23.9166	23.8715	0.3741	0.1849
##	1936	BRIGHT	24.0458	23.1934	22.5787	22.2596	22.1674	22.0355	0.6147	0.3191
##	1937	BRIGHT	24.7579	24.3530	23.5858	23.3290	23.1926	23.0609	0.7672	0.2568
##	1938	FAINT	25.9028	25.8449	25.5511	25.3132	24.9507	24.6878	0.2938	0.2379
##	1939	FAINT	27.4004	27.2141	26.9475	26.4244	26.1232	25.1356	0.2666	0.5231
##	1940	FAINT	28.2118	26.9665	26.5221	25.8718	25.4280	25.5353	0.4444	0.6503
##	1941	FAINT	27.8184	27.9511	27.7369	26.7866	26.6321	26.5700	0.2142	0.9503
##	1942	FAINT	26.2877	26.0378	25.5919	25.0169	24.4566	24.1753	0.4459	0.5750
##	1943	BRIGHT	26.6137	26.1243	24.1583	23.0944	22.0968	21.4728	1.9660	1.0639
##	1944	BRIGHT	24.8956	23.9418	23.3676	23.1011	23.0376	22.9631	0.5742	0.2665
##	1945	BRIGHT	23.8595	23.9306	23.8091	23.8631	23.9455	24.0894	0.1215	-0.0540
##	1946	FAINT	31.4074	27.5963	27.1300	26.9113	26.4323	26.1868	0.4663	0.2187
##	1947	FAINT	27.0869	26.3846	25.8623	25.3673	25.2434	25.2695	0.5223	0.4950
##	1948	FAINT	29.2278	28.0288	26.8025	26.2477	25.3908	24.6295	1.2263	0.5548
##	1949	FAINT	26.9511	27.2281	26.8953	26.5202	26.1076	25.7984	0.3328	0.3751
##	1950	BRIGHT	24.9472	24.1369	23.3450	23.1980	22.9139	22.9781	0.7919	0.1470
##	1951	FAINT	29.4569	28.0404	27.2333	26.6499	26.7185	26.2236	0.8071	0.5834
##	1952	FAINT	26.7779	26.4721	25.8274	25.0695	24.5970	24.2978	0.6447	0.7579
##	1953	BRIGHT	25.0670	22.9449	21.3593	20.6874	20.3492	20.1506	1.5856	0.6719
##	1954	FAINT	26.8303	27.0274	26.6709	26.2382	25.8021	25.4143	0.3565	0.4327
##	1955	FAINT	25.5430	25.2826	25.2450	25.0364	24.6978	24.4091	0.0376	0.2086
##	1956	FAINT	26.8213	26.5017	25.9349	25.6312	24.8430	24.4621	0.5668	0.3037
##	1957	BRIGHT	26.7141	25.3256	23.5974	22.3678	21.7304	21.3945	1.7282	1.2296
##	1958	FAINT	31.3138	30.3469	28.0706	26.6927	25.9168	25.3806	2.2763	1.3779
##	1959	BRIGHT	23.0088	21.5140	20.6995	20.2463	19.9899	19.7834	0.8145	0.4532
##	1960	BRIGHT	22.7827	22.2198	21.6508	21.4222	21.2364	21.1502	0.5690	0.2286
##	1961	BRIGHT	24.3287	24.0954	23.5379	23.1111	23.0597	22.9231	0.5575	0.4268
##	1962	BRIGHT	27.6828	26.3168	25.0383	24.0246	23.6595	23.2898	1.2785	1.0137
##	1963	FAINT	27.3310	26.5610	25.5943	25.4010	25.2547	24.9507	0.9667	0.1933
##	1964	BRIGHT	26.6348	26.2389	25.3209	24.6627	24.3602	24.1096	0.9180	0.6582
##	1965	BRIGHT	25.5767	25.0043	23.9825	23.0422	22.4048	22.1297	1.0218	0.9403
##	1966	FAINT	27.6189	27.3406	26.0145	25.4808	25.3716	25.1975	1.3261	0.5337
##	1967	BRIGHT	28.7271	26.3106	24.7137	23.7661	23.3934	23.1154	1.5969	0.9476
##	1968	FAINT	28.1247	28.3339	27.8938	26.8937	26.9281	26.0301	0.4401	1.0001
##	1969	BRIGHT	28.4387	28.3237	25.9763	24.8167	23.7352	23.0606	2.3474	1.1596
##	1970	BRIGHT	24.1858	22.0232	20.3907	19.5766	19.1923	18.9443	1.6325	0.8141
##	1971	FAINT	28.8543	28.9588	27.7025	26.9773	26.0595	25.7339	1.2563	0.7252
##	1972	FAINT	25.6333	25.7081	25.6192	25.8707	25.6908	27.6428	0.0889	-0.2515
##	1973	FAINT	26.6147	26.6958	26.3932	26.6829	27.0849	27.3669	0.3026	-0.2897
##	1974	FAINT	29.4115	27.7852	27.6384	26.6674	27.0481	27.6760	0.1468	0.9710
##	1975	FAINT	27.8050	26.7650	25.8506	25.6687	25.2718	25.3594	0.9144	0.1819
##	1976	FAINT	27.4523	28.6046	27.3666	26.7234	26.5334	26.2606	1.2380	0.6432
##	1977	BRIGHT	21.6796	20.8307	20.2080	19.8987	19.7643	19.6314	0.6227	0.3093
##	1978	FAINT	26.5746	26.1812	26.2591	26.1232	25.9533	26.8472	-0.0779	0.1359
##	1979	FAINT	29.6568	27.2956	25.9207	25.0157	24.6130	24.3374	1.3749	0.9050
##	1980	FAINT	27.7046	27.5642	26.4346	25.6954	24.8766	24.4934	1.1296	0.7392
##	1981	FAINT	28.4254	27.0119	26.2921	26.2894	25.9254	25.7356	0.7198	0.0027
##	1982	FAINT	30.9680	27.8098	26.7977	26.2970	25.7899	25.7752	1.0121	0.5007
##	1983	FAINT	27.1037	27.3418	26.9984	26.6974	26.5361	26.0185	0.3434	0.3010
##	1984	FAINT	26.6525	26.5312	25.7481	25.6340	25.4360	25.6896	0.7831	0.1141
##	1985	FAINT	26.0192	25.6551	25.3760	25.1228	24.7962	24.3470	0.2791	0.2532
##	1986	FAINT	26.6571	26.1086	25.3240	25.2471	25.0929	24.7865	0.7846	0.0769
##	1987	FAINT	27.8178	27.6494	27.2209	26.4184	26.7423	26.7506	0.4285	0.8025
##	1988	BRIGHT	24.8989	22.8297	21.2118	20.0455	19.6235	19.2732	1.6179	1.1663
##	1989	FAINT	27.8553	28.3500	27.2915	26.4748	26.2583	25.8504	1.0585	0.8167
##	1990	FAINT	28.2948	28.5584	27.2047	26.8102	26.2431	25.2914	1.3537	0.3945
##	1991	FAINT	28.9863	27.9491	26.9446	26.1056	25.2160	24.9701	1.0045	0.8390
##	1992	FAINT	26.5956	25.9371	25.5331	25.0073	24.2666	24.0887	0.4040	0.5258
##	1993	FAINT	27.6896	28.2510	27.1796	26.6206	26.0666	26.2727	1.0714	0.5590
##	1994	FAINT	27.5890	27.0921	26.7132	26.3590	25.5463	25.2679	0.3789	0.3542

##	1995	FAINT	28.3901	27.1187	26.5746	26.1211	26.3464	25.7124	0.5441	0.4535
##	1996	BRIGHT	25.8965	25.2060	24.3091	24.0352	23.8228	23.7818	0.8969	0.2739
##	1997	BRIGHT	25.0197	23.8337	22.4778	21.9950	21.7057	21.5289	1.3559	0.4828
##	1998	FAINT	28.5276	26.9183	26.1444	25.6595	25.3761	25.8768	0.7739	0.4849
##	1999	BRIGHT	28.6034	27.1812	25.5969	24.8928	24.6709	24.3146	1.5843	0.7041
##	2000	FAINT	26.3254	26.5282	26.8873	26.6150	26.9815	26.8558	-0.3591	0.2723
##	2001	FAINT	28.0060	26.7121	26.3327	26.1634	25.9429	26.2837	0.3794	0.1693
##	2002	BRIGHT	26.6313	26.2566	25.7764	24.9895	24.7358	24.8206	0.4802	0.7869
##	2003	BRIGHT	25.9889	25.6873	24.8473	24.4229	24.3879	24.0360	0.8400	0.4244
##	2004	FAINT	28.4593	27.4994	26.6390	26.6931	26.7657	28.8184	0.8604	-0.0541
##	2005	FAINT	27.3065	28.1254	27.2074	26.3828	26.5158	25.9743	0.9180	0.8246
##	2006	FAINT	27.8077	27.3887	27.0258	26.4977	26.7927	27.1265	0.3629	0.5281
##	2007	FAINT	28.2904	27.5731	27.9098	26.6954	26.4938	26.2351	-0.3367	1.2144
##	2008	FAINT	29.0184	27.3718	26.8327	26.3428	26.6650	26.9871	0.5391	0.4899
##	2009	FAINT	27.6090	27.4854	26.6866	25.7084	24.9155	24.1637	0.7988	0.9782
##	2010	FAINT	27.0877	26.9469	25.7857	25.6076	25.2811	25.4496	1.1612	0.1781
##	2011	BRIGHT	24.4314	24.0232	23.4488	23.3188	23.1493	23.1692	0.5744	0.1300
##	2012	FAINT	27.8442	27.4036	26.6176	25.9328	25.5409	24.9552	0.7860	0.6848
##	2013	FAINT	26.9069	26.8451	26.2967	25.9452	25.1883	24.7135	0.5484	0.3515
##	2014	BRIGHT	25.2915	25.0742	24.5049	24.5101	24.2824	24.4924	0.5693	-0.0052
##	2015	BRIGHT	24.1135	23.4131	23.1462	22.9008	22.9788	22.8591	0.2669	0.2454
##	2016	FAINT	27.4996	27.1481	26.5077	25.9053	25.2497	24.7184	0.6404	0.6024
##	2017	FAINT	27.2384	27.1371	26.8269	26.3359	25.4657	24.8016	0.3102	0.4910
##	2018	FAINT	28.4866	27.2449	26.4905	25.8753	25.5478	24.6608	0.7544	0.6152
##	2019	FAINT	25.4067	25.5442	25.3021	25.3146	25.1738	25.4853	0.2421	-0.0125
##	2020	FAINT	27.2555	27.0917	27.3027	26.4590	26.4065	25.4083	-0.2110	0.8437
##	2021	BRIGHT	22.2450	21.0352	19.9916	19.4520	19.1910	18.9145	1.0436	0.5396
##	2022	BRIGHT	25.6108	24.8454	23.7530	23.3908	23.0964	22.8947	1.0924	0.3622
##	2023	BRIGHT	21.9752	20.8390	19.4930	18.9037	18.5818	18.3120	1.3460	0.5893
##	2024	FAINT	30.3265	27.2231	26.4899	26.0161	25.2991	25.3631	0.7332	0.4738
##	2025	BRIGHT	25.8069	25.2946	25.0384	24.9097	24.9408	24.7537	0.2562	0.1287
##	2026	FAINT	27.4346	27.5494	26.1740	25.1262	24.5236	24.4984	1.3754	1.0478
##	2027	FAINT	27.2730	27.4927	27.7088	26.4262	26.1767	25.6647	-0.2161	1.2826
##	2028	FAINT	28.1315	28.1563	27.1999	26.9209	26.7806	27.8769	0.9564	0.2790
##	2029	BRIGHT	23.4098	22.8520	22.2066	22.0462	21.7934	21.7910	0.6454	0.1604
##	2030	FAINT	28.3871	27.4646	26.6716	25.9152	25.2097	24.8440	0.7930	0.7564
##	2031	FAINT	27.3653	26.7172	25.7622	25.6218	25.5143	24.9552	0.9550	0.1404
##	2032	FAINT	26.8999	26.7967	25.8983	25.6259	25.3531	26.0149	0.8984	0.2724
##	2033	BRIGHT	26.6663	25.8504	24.7810	24.3521	24.1850	23.9685	1.0694	0.4289
##	2034	BRIGHT	26.4386	25.6129	24.7016	24.0400	23.9102	23.8545	0.9113	0.6616
##	2035	FAINT	27.6525	26.7129	26.0925	25.9814	25.6683	25.5088	0.6204	0.1111
##	2036	FAINT	28.3181	29.3349	28.2268	26.8902	25.3482	24.9901	1.1081	1.3366
##	2037	BRIGHT	25.8417	25.1328	24.2248	23.2353	22.8820	22.6359	0.9080	0.9895
##	2038	BRIGHT	26.7314	25.6175	24.1550	23.3911	23.1238	22.9036	1.4625	0.7639
##	2039	FAINT	29.3965	27.3595	26.4256	25.7754	25.8241	25.0933	0.9339	0.6502
##	2040	FAINT	26.7421	26.5482	26.1024	25.5282	25.1576	24.5430	0.4458	0.5742
##	2041	FAINT	29.3491	28.0192	26.9877	26.4993	26.0814	25.3429	1.0315	0.4884
##	2042	BRIGHT	27.5392	25.8665	24.4804	24.0324	23.6893	23.5853	1.3861	0.4480
##	2043	FAINT	28.3120	27.9140	27.3011	26.7938	26.6897	27.8227	0.6129	0.5073
##	2044	BRIGHT	26.3854	25.8671	25.0617	24.8750	24.8071	24.7030	0.8054	0.1867
##	2045	FAINT	26.7087	26.6945	26.4075	26.0087	25.5954	25.4920	0.2870	0.3988
##	2046	BRIGHT	23.9402	22.9502	21.8392	21.2969	21.0418	20.7517	1.1110	0.5423
##	2047	FAINT	28.2098	29.0975	28.1341	26.9540	26.4327	25.9821	0.9634	1.1801
##	2048	BRIGHT	26.8832	26.2236	25.5178	24.9133	24.7844	24.9174	0.7058	0.6045
##	2049	FAINT	26.3156	27.0021	26.5530	26.4432	26.1780	26.3651	0.4491	0.1098
##	2050	BRIGHT	26.4531	26.0817	25.3105	24.7187	24.5335	24.6161	0.7712	0.5918
##	2051	FAINT	27.3423	27.4393	26.9208	26.7196	26.9923	28.5142	0.5185	0.2012
##	2052	BRIGHT	25.2477	24.4148	23.3256	22.9615	22.7468	22.6034	1.0892	0.3641
##	2053	FAINT	27.6107	27.1551	27.2166	26.5083	26.2821	25.7749	-0.0615	0.7083
##	2054	FAINT	26.1522	26.0252	25.5727	25.0927	24.3560	24.1321	0.4525	0.4800
##	2055	FAINT	26.9154	26.7806	26.6026	26.4333	26.0641	26.8283	0.1780	0.1693
##	2056	BRIGHT	27.7407	26.1811	24.8321	24.3737	24.0837	23.9600	1.3490	0.4584
##	2057	BRIGHT	23.6126	22.7503	21.6636	21.3585	21.1988	21.0803	1.0867	0.3051
##	2058	FAINT	27.4807	28.0546	27.0864	26.4063	26.2418	26.3013	0.9682	0.6801
##	2059	FAINT	28.0135	27.4884	26.4276	26.1513	25.7309	25.8595	1.0608	0.2763
##	2060	BRIGHT	25.1902	24.7001	24.0375	23.2648	22.9739	22.9010	0.6626	0.7727
##	2061	FAINT	27.4222	27.6224	26.8578	26.3406	26.2506	26.6594	0.7646	0.5172
##	2062	BRIGHT	25.1726	24.9330	24.7294	24.2210	23.8576	23.1650	0.2036	0.5084
##	2063	FAINT	28.3383	27.6353	26.6958	26.4789	26.3977	26.0351	0.9395	0.2169
##	2064	FAINT	27.8166	26.7627	26.2507	25.8076	25.5762	25.1659	0.5120	0.4431
##	2065	FAINT	30.3198	28.0676	27.4267	26.1674	24.6095	23.9704	0.6409	1.2593
##	2066	FAINT	28.5629	28.8684	27.9386	26.9270	27.0708	26.6349	0.9298	1.0116
##	2067	BRIGHT	26.0329	23.5566	21.8799	21.1589	20.7944	20.5453	1.6767	0.7210
##	2068	BRIGHT	24.9994	24.5566	23.6818	22.7168	22.2794	22.1038	0.8748	0.9650
##	2069	FAINT	28.3126	28.8779	26.4608	25.2790	24.3137	23.7768	2.4171	1.1818
##	2070	FAINT	28.6786	27.1870	26.1061	25.5051	25.2324	24.9596	1.0809	0.6010
##	2071	FAINT	26.5055	26.3475	25.6017	25.3259	25.1390	25.9653	0.7458	0.2758
##	2072	BRIGHT	28.7723	26.9990	25.9832	24.0660	23.3189	22.2816	1.0158	1.9172
##	2073	FAINT	28.7740	27.2649	26.5981	26.0040	25.3516	24.5478	0.6668	0.5941

##	2074	FAINT	28.4255	28.3023	26.9126	26.2236	25.6180	25.5966	1.3897	0.6890
##	2075	FAINT	28.6556	26.7253	25.8955	25.3833	25.2721	24.8191	0.8298	0.5122
##	2076	FAINT	27.5347	27.0459	26.7447	26.7542	25.9233	26.0441	0.3012	-0.0095
##	2077	FAINT	27.4863	27.4123	27.0121	26.4074	25.8371	25.7813	0.4002	0.6047
##	2078	FAINT	28.5916	28.1311	26.1176	25.4513	24.9203	25.0060	2.0135	0.6663
##	2079	FAINT	29.1868	29.7352	27.2242	26.3338	26.1113	25.8384	2.5110	0.8904
##	2080	FAINT	31.1508	27.7810	27.1593	26.5144	26.0776	26.0403	0.6217	0.6449
##	2081	FAINT	27.8805	27.7746	27.2995	26.5021	26.1508	25.5395	0.4751	0.7974
##	2082	FAINT	27.8922	27.3625	26.2880	25.9893	25.9958	26.2162	1.0745	0.2987
##	2083	BRIGHT	29.8613	28.0292	25.4751	24.3507	23.3618	22.8793	2.5541	1.1244
##	2084	FAINT	26.7046	27.1005	27.0189	26.6485	27.3166	26.1531	0.0816	0.3704
##	2085	BRIGHT	23.8262	22.9428	21.7150	21.1301	20.8280	20.5358	1.2278	0.5849
##	2086	FAINT	28.2985	26.9357	26.4935	25.7641	25.3140	25.4528	0.4422	0.7294
##	2087	FAINT	27.4420	26.8968	26.6599	25.9261	25.6756	25.3378	0.2369	0.7338
##	2088	BRIGHT	27.8629	27.4141	26.1961	24.9959	24.4752	24.3692	1.2180	1.2002
##	2089	BRIGHT	23.1179	21.6014	20.0234	19.3862	19.0049	18.7145	1.5780	0.6372
##	2090	FAINT	28.7616	27.2205	27.3531	26.9552	27.2608	27.2914	-0.1326	0.3979
##	2091	FAINT	28.6215	28.0116	27.0899	26.4211	26.5960	25.6691	0.9217	0.6688
##	2092	FAINT	27.7415	27.6970	26.5451	25.5378	25.0418	24.6574	1.1519	1.0073
##	2093	FAINT	26.5717	26.6563	26.7655	26.5067	26.7723	26.1259	-0.1092	0.2588
##	2094	BRIGHT	25.5812	24.9831	24.0070	23.3430	23.0944	22.9169	0.9761	0.6640
##	2095	FAINT	28.5896	28.3507	27.2997	26.5521	26.2351	26.1714	1.0510	0.7476
##	2096	BRIGHT	26.2715	24.2134	22.5137	21.2709	20.8046	20.4146	1.6997	1.2428
##	2097	FAINT	28.8761	27.1613	26.3792	26.0027	25.2698	25.0903	0.7821	0.3765
##	2098	BRIGHT	25.7216	23.8955	22.3061	21.6689	21.3417	21.1263	1.5894	0.6372
##	2099	FAINT	29.3546	27.9818	27.2845	26.4371	26.1421	25.9993	0.6973	0.8474
##	2100	FAINT	26.3115	26.5820	26.2841	25.6750	25.1021	24.8982	0.2979	0.6091
##	2101	FAINT	27.3917	27.1955	26.7478	26.7435	26.5446	26.1013	0.4477	0.0043
##	2102	BRIGHT	25.9913	25.4867	24.7893	24.2189	23.5964	23.0326	0.6974	0.5704
##	2103	BRIGHT	26.0417	25.8111	25.2394	24.7594	24.6067	24.4571	0.5717	0.4800
##	2104	BRIGHT	26.8239	26.1511	24.8086	24.5368	24.4111	24.2238	1.3425	0.2718
##	2105	FAINT	27.9529	28.2264	27.0515	26.9920	26.4364	26.2268	1.1749	0.0595
##	2106	BRIGHT	25.6445	24.7189	23.7051	23.3411	23.1277	23.0718	1.0138	0.3640
##	2107	FAINT	26.9994	27.1179	26.9409	26.5018	26.1322	26.2821	0.1770	0.4391
##	2108	BRIGHT	24.3066	23.6490	22.8860	22.6490	22.4234	22.3946	0.7630	0.2370
##	2109	BRIGHT	24.4535	23.6787	22.8872	22.5826	22.3941	22.2737	0.7915	0.3046
##	2110	FAINT	26.5582	26.4950	25.5682	25.4022	25.2415	24.6390	0.9268	0.1660
##	2111	FAINT	29.1451	27.2876	26.6096	25.8635	25.8097	25.9118	0.6780	0.7461
##	2112	FAINT	32.5762	27.7413	27.1763	26.5127	26.2341	26.5156	0.5650	0.6636
##	2113	BRIGHT	28.9332	27.4826	26.4076	24.5129	23.4205	22.8478	1.0750	1.8947
##	2114	FAINT	32.1741	28.9744	28.2679	26.9407	26.3649	25.3374	0.7065	1.3272
##	2115	FAINT	26.7399	26.7917	26.5757	26.1587	25.6938	25.8704	0.2160	0.4170
##	2116	BRIGHT	26.9886	25.5134	24.7604	24.3687	24.2139	24.3859	0.7530	0.3917
##	2117	BRIGHT	27.4938	26.8350	25.4004	24.7312	24.4477	24.4717	1.4346	0.6692
##	2118	FAINT	28.0145	28.0001	26.8085	26.3420	26.3873	25.5646	1.1916	0.4665
##	2119	FAINT	27.2582	28.0596	26.7883	26.8548	25.8228	25.6150	1.2713	-0.0665
##	2120	BRIGHT	22.0549	21.2082	20.9044	20.6982	20.6376	20.5591	0.3038	0.2062
##	2121	FAINT	27.3625	27.2009	27.5269	26.8401	27.1784	26.2999	-0.3260	0.6868
##	2122	FAINT	27.7556	28.1907	26.3250	25.2475	24.4748	24.1974	1.8657	1.0775
##	2123	BRIGHT	24.8217	24.3483	23.7589	23.5626	23.4088	23.4082	0.5894	0.1963
##	2124	FAINT	29.3343	28.4641	27.4408	26.8653	27.1104	26.9050	1.0233	0.5755
##	2125	FAINT	26.3412	26.2018	25.4248	25.3634	24.9966	25.3332	0.7770	0.0614
##	2126	BRIGHT	25.3831	24.4842	23.4526	22.5381	22.2268	21.9677	1.0316	0.9145
##	2127	FAINT	26.9825	26.4671	26.2457	26.2026	25.8663	25.9322	0.2214	0.0431
##	2128	FAINT	27.6903	27.3948	26.8355	26.5278	26.2741	26.9470	0.5593	0.3077
##	2129	BRIGHT	27.1557	26.2321	24.3524	23.0486	22.2105	21.3225	1.8797	1.3038
##	2130	FAINT	27.0104	26.8436	26.4407	25.7211	25.1158	24.3260	0.4029	0.7196
##	2131	BRIGHT	26.4366	26.1328	25.2561	24.3572	24.0726	23.6777	0.8767	0.8989
##	2132	FAINT	26.6920	26.8318	26.5654	26.6540	26.4524	28.5652	0.2664	-0.0886
##	2133	BRIGHT	25.9221	23.4093	21.7617	20.9156	20.5204	20.2502	1.6476	0.8461
##	2134	FAINT	29.4868	27.6903	27.0940	26.3123	25.5192	25.6468	0.5963	0.7817
##	2135	BRIGHT	26.3083	25.8741	25.1986	24.4286	23.9496	23.7306	0.6755	0.7700
##	2136	BRIGHT	26.7308	26.1266	25.5082	24.7175	24.2784	23.5363	0.6184	0.7907
##	2137	FAINT	26.5549	27.0703	27.4634	26.5608	26.2767	27.0018	-0.3931	0.9026
##	2138	BRIGHT	25.3596	23.5948	22.0321	21.3901	21.0455	20.8349	1.5627	0.6420
##	2139	BRIGHT	28.6965	27.1308	25.2495	24.0140	23.0853	22.3456	1.8813	1.2355
##	2140	FAINT	27.5320	27.1991	26.7854	26.1755	26.0640	26.4568	0.4137	0.6099
##	2141	FAINT	26.6333	26.6831	25.8040	25.4209	25.3608	25.1872	0.8791	0.3831
##	2142	BRIGHT	27.4985	27.1688	25.0844	23.4462	22.7348	21.7426	2.0844	1.6382
##	2143	FAINT	29.0709	28.0172	27.0856	26.3366	25.8842	25.8151	0.9316	0.7490
##	2144	BRIGHT	24.0083	23.4478	22.5494	21.6351	21.3390	21.1345	0.8984	0.9143
##	2145	BRIGHT	26.7484	26.0837	25.2326	24.3020	23.9472	23.7112	0.8511	0.9306
##	2146	FAINT	28.1382	27.2995	26.4999	26.1946	26.2373	25.7816	0.7996	0.3053
##	2147	FAINT	31.0761	27.7472	27.5220	26.8381	26.1738	26.7204	0.2252	0.6839
##	2148	BRIGHT	23.9627	23.7079	22.9980	22.3404	22.1679	21.9459	0.7099	0.6576
##	2149	BRIGHT	27.2275	25.6061	24.6082	23.0130	22.3099	21.3394	0.9979	1.5952
##	2150	FAINT	26.5685	27.4019	26.7013	26.4000	25.7354	24.7640	0.7006	0.3013
##	2151	BRIGHT	27.0015	26.0478	24.4909	23.5201	23.1872	22.9362	1.5569	0.9708
##	2152	FAINT	26.4190	27.4300	26.8621	26.9124	27.5291	26.2253	0.5679	-0.0503

##	2153	FAINT	28.2836	27.3740	26.6927	25.7980	25.5253	25.3596	0.6813	0.8947
##	2154	FAINT	29.6883	28.8865	26.9441	25.9310	25.6553	25.6352	1.9424	1.0131
##	2155	FAINT	29.5855	26.8715	26.2959	25.8838	25.5512	25.4345	0.5756	0.4121
##	2156	FAINT	28.1580	27.4448	26.7889	26.5204	26.6491	26.1039	0.6559	0.2685
##	2157	FAINT	26.4472	26.4738	26.6032	26.7384	27.1661	28.3327	-0.1294	-0.1352
##	2158	FAINT	27.2566	26.9470	25.8797	25.6043	25.4255	25.0676	1.0673	0.2754
##	2159	FAINT	27.0447	27.2689	26.4200	25.5820	25.3593	25.0365	0.8489	0.8380
##	2160	BRIGHT	27.0321	25.5420	24.0643	23.4248	23.1160	22.9068	1.4777	0.6395
##	2161	FAINT	28.2003	27.6831	26.8940	26.4885	25.6715	25.8975	0.7891	0.4055
##	2162	FAINT	26.8785	26.0947	25.9474	25.4772	25.1990	24.8268	0.1473	0.4702
##	2163	FAINT	29.1981	29.6575	27.8954	26.6444	26.2414	25.4322	1.7621	1.2510
##	2164	FAINT	27.5392	27.1389	26.8252	26.0918	25.8322	25.0091	0.3137	0.7334
##	2165	BRIGHT	26.0708	25.4797	24.9937	24.5326	24.0755	23.5484	0.4860	0.4611
##	2166	FAINT	32.3005	29.7224	27.6943	26.2988	26.0669	25.4487	2.0281	1.3955
##	2167	BRIGHT	28.3309	28.2904	25.8818	24.7352	23.7223	23.2059	2.4086	1.1466
##	2168	BRIGHT	24.0066	23.0048	22.1800	21.9003	21.6678	21.5811	0.8248	0.2797
##	2169	FAINT	26.6170	26.4503	25.9248	25.7824	25.5264	25.5897	0.5255	0.1424
##	2170	FAINT	28.0629	26.6186	25.3914	25.0616	24.6807	24.5298	1.2272	0.3298
##	2171	BRIGHT	24.7670	24.3971	23.8832	23.2192	23.0899	22.9292	0.5139	0.6640
##	2172	FAINT	28.6966	27.6040	26.8326	26.3341	26.0947	25.5291	0.7714	0.4985
##	2173	FAINT	26.6399	26.5058	25.8812	25.4724	24.8749	24.2764	0.6246	0.4088
##	2174	FAINT	29.3674	28.3509	27.3341	26.9128	26.3416	25.6612	1.0168	0.4213
##	2175	BRIGHT	26.8129	25.8126	24.9674	24.3239	23.6938	23.4738	0.8452	0.6435
##	2176	FAINT	27.2830	26.9588	27.0343	26.8092	25.9352	26.1106	-0.0755	0.2251
##	2177	FAINT	26.6081	26.3625	25.5649	25.3907	25.6058	25.0257	0.7976	0.1742
##	2178	BRIGHT	26.3169	26.1027	25.2995	24.7875	24.7329	24.4483	0.8032	0.5120
##	2179	FAINT	27.0572	27.5533	27.1229	26.6530	26.9371	27.0617	0.4304	0.4699
##	2180	FAINT	28.4555	27.9070	26.8585	26.0012	25.2769	24.8340	1.0485	0.8573
##	2181	FAINT	31.9343	27.4268	26.7882	25.8711	25.4695	25.2894	0.6386	0.9171
##	2182	BRIGHT	25.7559	24.9945	24.6341	23.9500	23.5453	22.7408	0.3604	0.6841
##	2183	FAINT	28.6423	28.1926	27.3277	26.7645	26.0062	25.8202	0.8649	0.5632
##	2184	FAINT	30.3062	27.2937	26.3900	25.7544	25.6031	25.3304	0.9037	0.6356
##	2185	FAINT	27.2240	27.7659	27.4377	26.9925	26.4968	27.3351	0.3282	0.4452
##	2186	FAINT	26.6271	25.9814	25.7930	25.7158	25.6269	25.5000	0.1884	0.0772
##	2187	FAINT	27.5892	27.2196	26.9999	25.9888	25.9856	25.1924	0.2197	1.0111
##	2188	BRIGHT	25.7749	25.1916	24.3843	24.1259	23.8934	23.7518	0.8073	0.2584
##	2189	FAINT	26.7877	26.7290	26.1725	25.5341	25.2504	25.2898	0.5565	0.6384
##	2190	FAINT	28.9504	27.5236	26.6440	26.2123	25.6901	24.9326	0.8796	0.4317
##	2191	FAINT	28.7294	27.3920	26.1908	25.0806	24.3339	24.0052	1.2012	1.1102
##	2192	FAINT	27.0313	27.2127	26.5093	25.8567	25.2626	24.9548	0.7034	0.6526
##	2193	FAINT	29.3182	28.4752	27.6840	26.2391	25.6352	24.6095	0.7912	1.4449
##	2194	FAINT	28.9841	27.6863	27.0789	26.9958	26.5345	25.8610	0.6074	0.0831
##	2195	BRIGHT	25.6701	25.1059	24.4231	24.2274	24.0575	24.0822	0.6828	0.1957
##	2196	FAINT	26.9199	26.1684	25.8243	25.2931	24.7565	24.4516	0.3441	0.5312
##	2197	BRIGHT	24.8235	24.0224	23.4559	23.1717	23.0825	22.9380	0.5665	0.2842
##	2198	FAINT	27.7909	26.9180	26.2811	25.5876	25.0928	24.3907	0.6369	0.6935
##	2199	BRIGHT	24.7381	23.6793	22.4494	21.3592	20.9497	20.6242	1.2299	1.0902
##	2200	FAINT	29.1759	28.5075	27.4201	26.8820	26.4089	26.5556	1.0874	0.5381
##	2201	FAINT	28.4999	27.9795	26.9352	26.9925	26.3052	25.8473	1.0443	-0.0573
##	2202	BRIGHT	24.9090	24.3741	23.5959	23.3596	23.0827	23.0392	0.7782	0.2363
##	2203	FAINT	27.1762	26.6408	26.1638	25.8618	26.5148	25.7025	0.4770	0.3020
##	2204	FAINT	26.8176	25.7324	25.3000	25.1056	25.0609	24.9287	0.4324	0.1944
##	2205	BRIGHT	25.9203	25.4723	24.6873	24.4187	24.2759	24.0805	0.7850	0.2686
##	2206	FAINT	28.4143	26.8106	26.0155	25.5204	25.4007	25.3717	0.7951	0.4951
##	2207	FAINT	27.8799	27.7442	26.2668	25.1007	25.0271	24.5842	1.4774	1.1661
##	2208	BRIGHT	31.0857	26.5761	25.3195	24.4080	24.0336	23.7738	1.2566	0.9115
##	2209	FAINT	27.7298	27.8865	28.1578	26.7519	26.8526	26.5296	-0.2713	1.4059
##	2210	BRIGHT	25.9040	25.6552	24.8535	24.7238	24.4867	24.6819	0.8017	0.1297
##	2211	BRIGHT	25.4678	24.9658	24.0676	23.5271	23.3912	23.1689	0.8982	0.5405
##	2212	FAINT	28.4301	27.3886	26.7126	26.0916	25.3343	24.7813	0.6760	0.6210
##	2213	BRIGHT	24.4539	23.3005	22.6027	22.2596	22.0870	21.9471	0.6978	0.3431
##	2214	FAINT	27.2277	26.6868	26.3124	25.6688	25.4611	25.1676	0.3744	0.6436
##	2215	FAINT	28.6483	28.7726	27.6049	26.8430	26.6625	26.8404	1.1677	0.7619
##	2216	FAINT	28.7760	27.4965	27.0272	26.5200	26.2920	28.4512	0.4693	0.5072
##	2217	FAINT	30.2333	29.7528	28.6344	26.8092	27.4585	27.9276	1.1184	1.8252
##	2218	BRIGHT	24.6545	24.5499	24.5597	24.4586	24.1283	23.8552	-0.0098	0.1011
##	2219	FAINT	26.4591	27.2216	26.9467	26.6142	26.6677	25.9108	0.2749	0.3325
##	2220	FAINT	28.6848	27.4684	26.6370	26.0856	26.1007	24.6513	0.8314	0.5514
##	2221	FAINT	27.9188	28.0827	27.5153	26.9250	27.3265	26.4847	0.5674	0.5903
##	2222	FAINT	27.9363	27.2699	26.6603	26.1369	25.8660	25.3535	0.6096	0.5234
##	2223	BRIGHT	26.9287	26.4410	25.6271	24.8124	24.1136	23.3014	0.8139	0.8147
##	2224	FAINT	28.7570	27.2238	26.7108	25.6188	25.2509	24.2080	0.5130	1.0920
##	2225	FAINT	27.6573	26.7548	25.9945	25.1833	24.9965	24.7153	0.7603	0.8112
##	2226	FAINT	27.2236	27.7595	27.3525	26.7715	26.3765	26.0052	0.4070	0.5810
##	2227	FAINT	27.9733	28.8195	27.4850	26.2203	25.6656	25.0340	1.3345	1.2647
##	2228	FAINT	28.8324	27.9443	27.2386	26.8948	27.0284	25.9306	0.7057	0.3438
##	2229	FAINT	31.5441	29.3395	27.6887	26.8164	26.2447	26.2792	1.6508	0.8723
##	2230	BRIGHT	26.4862	25.9665	25.1461	24.8695	24.7030	24.7689	0.8204	0.2766
##	2231	FAINT	27.5787	27.3292	26.8957	26.8935	26.5552	26.2954	0.4335	0.0022

##	2232	BRIGHT	26.6186	26.0387	25.1902	24.3482	24.0379	23.7511	0.8485	0.8420
##	2233	BRIGHT	24.4843	23.8182	22.8884	22.5472	22.2521	22.1140	0.9298	0.3412
##	2234	FAINT	27.6153	28.0391	27.7910	26.7425	26.9596	26.0259	0.2481	1.0485
##	2235	FAINT	27.5305	28.2200	27.0818	26.4824	25.4110	25.1632	1.1382	0.5994
##	2236	FAINT	27.7382	28.0124	27.5925	26.5536	26.7209	26.2676	0.4199	1.0389
##	2237	FAINT	26.4892	26.3792	25.7432	25.0676	24.7667	24.6051	0.6360	0.6756
##	2238	BRIGHT	24.3121	23.5182	22.7727	22.4788	22.2306	22.1554	0.7455	0.2939
##	2239	FAINT	29.6876	28.8507	26.9643	26.0071	24.9520	24.1168	1.8864	0.9572
##	2240	FAINT	28.4859	27.8959	27.3261	26.2830	25.8443	25.5131	0.5698	1.0431
##	2241	FAINT	29.3291	27.1470	26.5728	26.0250	25.8431	25.2416	0.5742	0.5478
##	2242	FAINT	28.4408	27.3938	27.4254	26.6436	26.4957	25.9076	-0.0316	0.7818
##	2243	BRIGHT	28.4275	26.4247	24.7416	23.6207	23.2279	22.9144	1.6831	1.1209
##	2244	FAINT	28.0139	27.2557	26.6792	26.1656	26.1316	25.8168	0.5765	0.5136
##	2245	FAINT	26.2977	27.0254	26.7703	26.9451	27.2926	26.9691	0.2551	-0.1748
##	2246	FAINT	27.3936	27.0717	26.3327	25.7835	25.1782	24.7084	0.7390	0.5492
##	2247	FAINT	27.7357	27.6357	26.9991	26.5939	26.5767	25.3589	0.6366	0.4052
##	2248	FAINT	29.0741	28.6997	27.1495	25.5339	24.8221	23.8576	1.5502	1.6156
##	2249	BRIGHT	26.2035	25.2592	24.0414	23.5894	23.3890	23.0119	1.2178	0.4520
##	2250	BRIGHT	25.4468	25.4486	25.0354	24.7268	24.8259	24.3219	0.4132	0.3086
##	2251	FAINT	29.4744	28.0139	27.6831	26.3830	25.9204	25.3068	0.3308	1.3001
##	2252	BRIGHT	24.6372	24.7080	24.3795	23.9339	23.7274	23.3444	0.3285	0.4456
##	2253	FAINT	27.3041	26.4872	25.9375	25.2215	24.7127	24.4199	0.5497	0.7160
##	2254	FAINT	27.9983	28.4754	27.0096	25.3269	24.6385	23.6477	1.4658	1.6827
##	2255	FAINT	28.1809	27.0739	26.5810	25.8519	25.5712	26.0778	0.4929	0.7291
##	2256	FAINT	26.4824	26.7507	26.9696	26.7195	26.8803	26.5213	-0.2189	0.2501
##	2257	BRIGHT	27.4300	25.8905	24.3334	23.4622	23.1008	22.7800	1.5571	0.8712
##	2258	FAINT	28.2605	27.6195	26.5579	26.3350	26.0523	25.7959	1.0616	0.2229
##	2259	FAINT	27.7464	27.8830	27.0174	26.2694	26.1840	25.3855	0.8656	0.7480
##	2260	FAINT	27.4815	27.5822	26.9255	26.4497	25.7177	24.9853	0.6567	0.4758
##	2261	BRIGHT	26.5287	25.5726	24.7001	24.4629	24.2737	24.2855	0.8725	0.2372
##	2262	FAINT	27.7913	29.8700	27.4089	26.8066	26.1780	25.3367	2.4611	0.6023
##	2263	BRIGHT	24.8608	24.0100	23.3968	22.7637	22.4230	21.6892	0.6132	0.6331
##	2264	FAINT	27.5929	27.1349	26.7502	25.7052	25.3589	25.4642	0.3847	1.0450
##	2265	BRIGHT	27.1591	24.8559	23.3236	22.2255	21.8301	21.5192	1.5323	1.0981
##	2266	FAINT	27.2252	27.9517	27.1473	26.6138	26.5299	29.7156	0.8044	0.5335
##	2267	FAINT	27.4806	26.6533	26.0929	25.1416	24.3021	23.6210	0.5604	0.9513
##	2268	FAINT	29.3650	27.2468	27.1836	25.5153	24.8568	23.6921	0.0632	1.6683
##	2269	FAINT	27.4894	27.3550	26.7587	26.5880	26.9672	26.8990	0.5963	0.1707
##	2270	FAINT	27.3421	27.3854	26.7259	26.4462	26.4677	25.6881	0.6595	0.2797
##	2271	BRIGHT	25.3954	25.0681	24.4584	23.9668	23.8388	23.7130	0.6097	0.4916
##	2272	BRIGHT	25.7841	25.1428	24.4545	23.6318	23.3815	23.2653	0.6883	0.8227
##	2273	BRIGHT	24.8155	24.7864	24.7911	24.7277	24.5719	24.1671	-0.0047	0.0634
##	2274	FAINT	27.7660	26.7982	25.9952	25.5969	25.5624	25.2581	0.8030	0.3983
##	2275	BRIGHT	26.5767	25.9816	25.4631	24.7249	24.5269	24.5559	0.5185	0.7382
##	2276	BRIGHT	26.1171	25.4366	24.8477	24.5976	24.4018	24.2392	0.5889	0.2501
##	2277	FAINT	28.0311	26.9402	25.9586	25.0817	25.0788	24.5579	0.9816	0.8769
##	2278	BRIGHT	26.6036	25.8164	24.6560	24.2778	24.0776	23.9822	1.1604	0.3782
##	2279	FAINT	28.9290	27.8546	27.7591	26.8747	25.5608	25.8712	0.0955	0.8844
##	2280	FAINT	25.5136	25.2843	25.1283	25.3942	25.0964	25.3774	0.1560	-0.2659
##	2281	BRIGHT	25.0512	24.0604	22.9402	22.0682	21.7855	21.5155	1.1202	0.8720
##	2282	BRIGHT	26.3103	25.8660	25.4784	24.9877	24.2158	24.2068	0.3876	0.4907
##	2283	FAINT	30.8009	28.0539	26.6665	25.8074	25.4552	25.1458	1.3874	0.8591
##	2284	FAINT	28.6294	27.8846	27.1245	26.8327	27.1714	27.1857	0.7601	0.2918
##	2285	BRIGHT	26.5788	25.9715	24.9617	24.6593	24.5505	24.6237	1.0098	0.3024
##	2286	FAINT	26.8555	27.2313	26.6324	26.1490	25.6367	25.1127	0.5989	0.4834
##	2287	BRIGHT	27.1339	26.4542	23.9106	22.8262	21.7869	21.1430	2.5436	1.0844
##	2288	FAINT	27.1088	26.7036	26.7402	25.8457	25.7763	26.0624	-0.0366	0.8945
##	2289	BRIGHT	26.8524	26.8207	25.5779	24.3999	23.8824	23.6177	1.2428	1.1780
##	2290	FAINT	29.3888	27.0707	26.3933	26.3631	26.1324	27.5483	0.6774	0.0302
##	2291	FAINT	28.0922	27.1189	26.0392	26.0028	25.8430	25.6232	1.0797	0.0364
##	2292	FAINT	28.0009	28.7748	27.1465	26.9435	26.2521	26.6413	1.6283	0.2030
##	2293	FAINT	27.1431	28.1352	27.4900	26.7164	26.6212	26.8200	0.6452	0.7736
##	2294	BRIGHT	26.6182	25.2786	23.5760	22.3007	21.8102	21.4330	1.7026	1.2753
##	2295	FAINT	26.7426	26.5540	25.7213	25.4044	25.3006	25.0836	0.8327	0.3169
##	2296	FAINT	27.0462	26.8035	26.3040	25.5612	24.7729	24.3130	0.4995	0.7428
##	2297	BRIGHT	24.4824	23.3283	22.5621	22.1990	22.0992	21.9384	0.7662	0.3631
##	2298	FAINT	26.1559	26.5080	26.0952	25.6570	25.2215	24.9257	0.4128	0.4382
##	2299	FAINT	26.6977	26.4739	26.1964	25.8791	25.2419	25.1298	0.2775	0.3173
##	2300	BRIGHT	27.1417	27.3748	25.8219	24.7691	24.2844	23.9933	1.5529	1.0528
##	2301	BRIGHT	28.9961	27.0878	25.2270	24.1469	23.2312	22.7824	1.8608	1.0801
##	2302	FAINT	27.9802	26.5602	26.1522	25.7255	25.1291	24.8159	0.4080	0.4267
##	2303	FAINT	30.4847	27.5788	27.2981	26.5815	26.0841	25.6424	0.2807	0.7166
##	2304	FAINT	26.9536	26.8590	26.1516	25.7471	25.6715	26.8584	0.7074	0.4045
##	2305	BRIGHT	26.4301	25.9047	25.4804	24.7614	24.2251	23.6143	0.4243	0.7190
##	2306	BRIGHT	24.2470	23.9608	23.2351	22.3855	22.0385	21.8394	0.7257	0.8496
##	2307	FAINT	27.4319	27.5911	26.9317	26.3259	25.8876	26.6671	0.6594	0.6058
##	2308	FAINT	26.7870	26.7949	26.5762	26.1406	26.4447	26.0478	0.2187	0.4356
##	2309	BRIGHT	26.2864	25.8081	24.9360	24.7754	24.7248	24.9134	0.8721	0.1606
##	2310	FAINT	28.9589	27.4770	26.9899	26.7259	26.4819	25.7068	0.4871	0.2640

##	2311	FAINT	26.2400	26.3630	26.2972	26.0491	25.2509	25.2364	0.0658	0.2481
##	2312	BRIGHT	26.8045	24.7480	23.1645	22.1421	21.7279	21.4546	1.5835	1.0224
##	2313	BRIGHT	29.2068	27.9096	26.3573	24.5053	23.8511	22.8111	1.5523	1.8520
##	2314	FAINT	28.2191	27.6945	27.0577	26.4344	25.3191	25.1665	0.6368	0.6233
##	2315	BRIGHT	26.7503	26.1559	25.1643	24.3927	23.5996	23.1114	0.9916	0.7716
##	2316	FAINT	28.1078	28.4389	27.7648	25.8124	25.2474	24.4452	0.6741	1.9524
##	2317	FAINT	27.3274	26.2053	25.9436	25.5073	24.6938	24.4045	0.2617	0.4363
##	2318	FAINT	28.7466	27.7504	26.9585	26.7524	26.6626	26.5634	0.7919	0.2061
##	2319	FAINT	28.1367	28.1893	27.3779	26.7739	26.9221	27.3607	0.8114	0.6040
##	2320	FAINT	26.8288	26.4815	26.1923	25.7525	25.4858	24.5197	0.2892	0.4398
##	2321	BRIGHT	27.0501	26.3095	25.3334	24.9407	24.6562	24.3937	0.9761	0.3927
##	2322	FAINT	29.2864	27.2182	26.2187	26.0296	26.3036	25.4152	0.9995	0.1891
##	2323	FAINT	26.9543	26.3693	25.5540	25.0869	24.9043	24.6363	0.8153	0.4671
##	2324	BRIGHT	29.3394	27.0155	25.6622	24.8749	24.5765	24.4827	1.3533	0.7873
##	2325	BRIGHT	26.8252	27.0549	25.8462	24.9273	24.3772	24.0937	1.2087	0.9189
##	2326	FAINT	27.9793	28.0222	26.8217	26.2205	25.3940	25.4226	1.2005	0.6012
##	2327	BRIGHT	25.5190	25.3501	24.8943	24.1549	23.6005	23.2783	0.4558	0.7394
##	2328	FAINT	28.1024	27.6048	27.4690	26.9910	26.4728	27.6162	0.1358	0.4780
##	2329	FAINT	27.7627	27.1011	26.8716	26.4513	25.9217	25.5026	0.2295	0.4203
##	2330	FAINT	30.1447	28.4851	27.3789	26.5820	26.3083	25.5249	1.1062	0.7969
##	2331	FAINT	37.3523	30.2244	27.9326	26.8567	25.4259	24.7498	2.2918	1.0759
##	2332	BRIGHT	25.4026	25.0709	24.6811	24.2841	23.5723	23.3255	0.3898	0.3970
##	2333	BRIGHT	25.8673	25.8718	25.3987	24.9068	24.4340	23.6443	0.4731	0.4919
##	2334	FAINT	28.7289	28.6310	27.0117	26.6394	27.4890	25.3672	1.6193	0.3723
##	2335	FAINT	26.1313	26.0909	25.3013	25.0658	24.8134	24.8388	0.7896	0.2355
##	2336	FAINT	26.5621	26.1919	25.3378	25.1861	24.8832	24.5415	0.8541	0.1517
##	2337	BRIGHT	25.3770	25.2209	25.0206	24.7098	24.4235	24.4649	0.2003	0.3108
##	2338	FAINT	25.7680	25.6786	25.4267	25.2127	25.2211	25.1698	0.2519	0.2140
##	2339	FAINT	27.1132	26.7950	26.0873	25.5763	25.4441	25.8431	0.7077	0.5110
##	2340	FAINT	28.0271	27.0698	26.2858	25.5758	24.8689	25.0703	0.7840	0.7100
##	2341	FAINT	27.0914	26.6535	26.6668	26.7128	26.4784	25.6205	-0.0133	-0.0460
##	2342	FAINT	28.1352	28.2889	27.6396	26.9639	27.1558	26.1225	0.6493	0.6757
##	2343	FAINT	27.6880	27.7070	26.6894	26.2148	25.2357	24.9182	1.0176	0.4746
##	2344	FAINT	29.9949	28.0535	27.3328	25.6392	24.7086	24.1307	0.7207	1.6936
##	2345	FAINT	31.2558	28.8736	28.1510	26.6499	27.2861	25.8528	0.7226	1.5011
##	2346	FAINT	27.0959	27.3316	26.8752	26.4014	25.8829	25.5687	0.4564	0.4738
##	2347	FAINT	28.4284	27.9798	27.8877	26.9697	26.7197	26.3326	0.0921	0.9180
##	2348	FAINT	28.4594	27.4768	26.7456	26.2665	26.0627	25.6276	0.7312	0.4791
##	2349	FAINT	28.6333	28.0737	27.7006	26.9768	26.7901	25.7900	0.3731	0.7238
##	2350	BRIGHT	22.0496	21.0405	20.0960	19.6694	19.4205	19.2174	0.9445	0.4266
##	2351	FAINT	27.7368	27.6936	26.9881	26.5129	26.0856	27.8059	0.7055	0.4752
##	2352	FAINT	27.0430	26.9026	26.3810	25.7022	25.1795	24.8439	0.5216	0.6788
##	2353	FAINT	28.4737	27.8878	27.0304	26.8057	26.2924	25.8221	0.8574	0.2247
##	2354	BRIGHT	25.8216	25.4307	25.1194	24.8138	24.2250	23.9769	0.3113	0.3056
##	2355	BRIGHT	25.8478	25.8150	25.2968	24.5557	24.2327	24.4555	0.5182	0.7411
##	2356	FAINT	27.5247	27.8758	26.7509	26.7831	26.4486	27.3348	1.1249	-0.0322
##	2357	FAINT	27.5356	27.4280	26.6695	26.5961	26.1182	25.8214	0.7585	0.0734
##	2358	FAINT	26.7835	26.7543	26.4506	25.8734	25.3851	24.7722	0.3037	0.5772
##	2359	FAINT	27.4765	27.1234	26.4665	25.5707	25.0689	24.8398	0.6569	0.8958
##	2360	BRIGHT	27.8707	26.2913	25.5312	24.8683	24.5884	24.6456	0.7601	0.6629
##	2361	FAINT	28.2896	27.9576	26.8534	26.2846	26.1331	25.5874	1.1042	0.5688
##	2362	FAINT	27.6826	27.5150	26.8464	26.2468	25.5447	25.2647	0.6686	0.5996
##	2363	FAINT	26.2197	26.2686	26.2601	25.8722	25.4120	25.2269	0.0085	0.3879
##	2364	FAINT	27.5591	27.2734	26.7563	26.3762	26.1458	25.3453	0.5171	0.3801
##	2365	FAINT	28.4735	29.0627	27.0170	25.7691	25.1002	24.5355	2.0457	1.2479
##	2366	FAINT	27.8438	27.3298	27.0278	26.6797	26.9914	27.4938	0.3020	0.3481
##	2367	FAINT	26.9859	26.5931	26.0758	25.9296	25.5409	26.2962	0.5173	0.1462
##	2368	BRIGHT	26.6291	26.1745	25.1970	24.1832	23.6805	23.6838	0.9775	1.0138
##	2369	BRIGHT	26.7136	25.4365	24.5321	23.8198	23.6284	23.4112	0.9044	0.7123
##	2370	FAINT	27.6115	26.5853	26.2075	26.1530	26.0424	25.4682	0.3778	0.0545
##	2371	BRIGHT	25.6995	25.5117	25.1530	24.7437	24.5664	24.4051	0.3587	0.4093
##	2372	FAINT	28.5926	28.3029	27.1668	26.9034	27.2738	27.1591	1.1361	0.2634
##	2373	FAINT	27.4804	26.8697	25.8548	25.2312	24.9682	25.3726	1.0149	0.6236
##	2374	BRIGHT	26.9664	26.4556	25.7107	24.7191	24.2834	24.0634	0.7449	0.9916
##	2375	FAINT	28.5367	27.9270	27.5828	26.4378	26.6002	26.2875	0.3442	1.1450
##	2376	FAINT	28.9755	27.7547	27.4664	26.5439	26.2456	25.4562	0.2883	0.9225
##	2377	FAINT	33.2375	28.0584	28.0839	26.2541	25.6753	24.7193	-0.0255	1.8298
##	2378	BRIGHT	27.7905	27.7216	26.0975	24.9659	24.3393	24.1263	1.6241	1.1316
##	2379	BRIGHT	26.1668	25.7998	25.3056	24.5215	24.1641	24.1893	0.4942	0.7841
##	2380	FAINT	26.8225	27.0283	27.1950	26.7887	26.4908	27.7607	-0.1667	0.4063
##	2381	FAINT	30.0471	27.6264	27.0515	26.9631	26.6208	25.7785	0.5749	0.0884
##	2382	FAINT	29.2544	27.2436	26.4861	25.9356	25.8509	25.6814	0.7575	0.5505
##	2383	BRIGHT	24.7219	24.5230	24.0525	23.5178	23.3272	23.2274	0.4705	0.5347
##	2384	FAINT	27.3496	27.5189	27.1076	26.8743	25.9624	26.0592	0.4113	0.2333
##	2385	FAINT	27.9299	27.6639	26.6814	26.5254	26.0600	26.8605	0.9825	0.1560
##	2386	FAINT	26.6315	26.6435	26.3756	26.1292	25.7945	24.8668	0.2679	0.2464
##	2387	BRIGHT	25.5660	25.2771	24.6943	23.9601	23.5866	23.5128	0.5828	0.7342
##	2388	FAINT	27.2322	26.5737	26.2628	26.0893	25.7102	25.4686	0.3109	0.1735
##	2389	BRIGHT	26.4465	25.8787	24.7049	23.5938	22.9959	22.7113	1.1738	1.1111

##	2390	FAINT	26.5136	26.2314	25.7541	25.5293	25.3710	25.3168	0.4773	0.2248
##	2391	FAINT	30.5546	27.9200	26.9186	26.3075	26.9864	26.7426	1.0014	0.6111
##	2392	FAINT	26.9798	26.6111	25.9263	25.4345	25.4967	25.3000	0.6848	0.4918
##	2393	FAINT	26.6437	26.5016	25.9752	25.1788	24.6120	24.2331	0.5264	0.7964
##	2394	FAINT	27.0078	27.4892	27.6125	26.9273	27.1467	25.7500	-0.1233	0.6852
##	2395	BRIGHT	25.5340	25.0773	24.7575	24.5587	24.5845	24.3195	0.3198	0.1988
##	2396	BRIGHT	25.2729	24.5857	24.0938	23.8669	23.7819	23.6254	0.4919	0.2269
##	2397	FAINT	28.0325	27.2108	26.1270	25.8363	25.6019	25.0442	1.0838	0.2907
##	2398	BRIGHT	24.1473	23.7167	23.2256	23.0787	22.9438	22.8608	0.4911	0.1469
##	2399	FAINT	31.1244	27.6779	26.5350	26.3109	26.0407	25.7579	1.1429	0.2241
##	2400	FAINT	28.2278	27.5391	26.7813	26.6696	26.0944	25.9995	0.7578	0.1117
##	2401	BRIGHT	24.8574	24.6110	24.1715	23.4813	23.2872	23.1787	0.4395	0.6902
##	2402	FAINT	27.2906	28.1002	26.9311	26.7768	26.5668	27.2515	1.1691	0.1543
##	2403	BRIGHT	25.3235	24.9097	24.2801	24.1937	23.9476	23.9151	0.6296	0.0864
##	2404	FAINT	27.3661	27.4858	26.3760	25.4229	24.8045	24.3301	1.1098	0.9531
##	2405	BRIGHT	21.6340	20.7315	20.0716	19.7413	19.6321	19.5083	0.6599	0.3303
##	2406	BRIGHT	26.3403	25.4556	24.2503	23.4333	23.1247	22.8454	1.2053	0.8170
##	2407	BRIGHT	26.3808	25.8381	25.0326	24.6939	24.6507	24.6120	0.8055	0.3387
##	2408	FAINT	29.0151	27.5110	26.7860	26.3906	26.2394	28.5587	0.7250	0.3954
##	2409	FAINT	28.5123	30.5773	26.7113	25.6036	24.8203	24.4324	3.8660	1.1077
##	2410	FAINT	28.3712	26.7130	25.7826	25.1364	24.9500	24.9186	0.9304	0.6462
##	2411	FAINT	26.8017	27.1353	26.5084	26.1221	25.6841	24.9353	0.6269	0.3863
##	2412	BRIGHT	28.3710	26.3434	25.2503	24.8955	24.6305	24.2980	1.0931	0.3548
##	2413	FAINT	27.6392	27.3782	27.3906	26.5286	25.9689	25.2766	-0.0124	0.8620
##	2414	BRIGHT	28.2576	25.8554	24.8809	24.3012	24.0782	23.7472	0.9745	0.5797
##	2415	FAINT	26.4023	26.1770	25.6079	25.0971	24.4773	23.9674	0.5691	0.5108
##	2416	BRIGHT	26.8966	26.2974	25.7921	24.8410	24.1795	23.2936	0.5053	0.9511
##	2417	FAINT	27.5296	28.5737	27.7049	26.9689	26.8795	27.1172	0.8688	0.7360
##	2418	FAINT	26.6741	26.5389	26.1827	25.7879	25.3844	25.2667	0.3562	0.3948
##	2419	FAINT	28.5339	27.7229	27.8193	26.9177	27.2597	27.0646	-0.0964	0.9016
##	2420	BRIGHT	26.4426	25.6151	25.1576	24.8959	24.9102	24.5599	0.4575	0.2617
##	2421	BRIGHT	24.8530	23.0320	21.4612	20.8224	20.5098	20.3001	1.5708	0.6388
##	2422	FAINT	27.0825	27.6871	25.9578	25.0634	24.8191	24.6230	1.7293	0.8944
##	2423	BRIGHT	25.8572	25.3023	24.4967	24.2421	24.1367	23.8768	0.8056	0.2546
##	2424	FAINT	29.0954	28.2590	27.0573	26.4470	26.4085	25.7538	1.2017	0.6103
##	2425	FAINT	28.8176	28.7739	27.1064	26.1332	25.2753	25.6782	1.6675	0.9732
##	2426	FAINT	27.8945	27.6825	27.1101	26.6159	26.0969	25.7612	0.5724	0.4942
##	2427	FAINT	26.5540	26.3239	25.8111	25.2198	24.9734	24.6294	0.5128	0.5913
##	2428	FAINT	29.1745	27.6493	27.1145	26.5347	25.9885	25.3853	0.5348	0.5798
##	2429	FAINT	27.3568	27.2676	26.6335	26.3513	26.2002	26.0366	0.6341	0.2822
##	2430	FAINT	26.6160	26.6080	26.6545	26.5346	26.7159	26.4838	-0.0465	0.1199
##	2431	FAINT	27.4199	26.2021	25.4661	25.0328	24.8685	24.7821	0.7360	0.4333
##	2432	FAINT	26.8963	27.0367	27.3288	26.7120	26.7555	26.7294	-0.2921	0.6168
##	2433	BRIGHT	27.1369	26.6314	25.2743	24.7357	24.4274	24.1282	1.3571	0.5386
##	2434	FAINT	28.6905	28.5691	28.0783	26.9608	26.7496	25.9980	0.4908	1.1175
##	2435	FAINT	26.2813	27.0070	26.5208	26.1125	25.7168	24.9548	0.4862	0.4083
##	2436	BRIGHT	26.0956	25.6398	24.9080	24.2024	23.5718	23.2210	0.7318	0.7056
##	2437	FAINT	26.7690	26.9010	26.7335	26.7245	26.2366	25.6711	0.1675	0.0090
##	2438	FAINT	28.3427	27.6791	26.2772	26.0256	25.5696	25.5578	1.4019	0.2516
##	2439	BRIGHT	26.6526	25.8081	25.3438	24.4704	23.9195	23.0398	0.4643	0.8734
##	2440	FAINT	29.6601	28.7306	28.3335	26.9248	26.8249	26.1683	0.3971	1.4087
##	2441	FAINT	26.7753	26.7810	26.5363	26.5331	26.4541	26.4267	0.2447	0.0032
##	2442	FAINT	28.7440	27.1022	27.0285	26.7374	25.8307	25.3403	0.0737	0.2911
##	2443	FAINT	26.6377	26.1988	25.4746	25.2514	24.9378	25.0417	0.7242	0.2232
##	2444	FAINT	28.7457	27.4769	26.4634	25.6152	25.4952	25.2894	1.0135	0.8482
##	2445	FAINT	28.0824	27.3092	26.6939	26.3900	26.4307	26.2740	0.6153	0.3039
##	2446	FAINT	27.4709	27.5784	27.4649	26.7782	26.4108	25.5724	0.1135	0.6867
##	2447	BRIGHT	23.6945	23.2070	22.3313	22.0447	21.8830	21.7543	0.8757	0.2866
##	2448	BRIGHT	25.5603	25.4000	25.1550	24.6727	24.3726	24.4390	0.2450	0.4823
##	2449	FAINT	27.7117	27.7223	26.9211	25.9923	25.5800	24.6561	0.8012	0.9288
##	2450	FAINT	27.3777	26.3432	25.9402	25.5326	24.8258	24.5353	0.4030	0.4076
##	2451	FAINT	27.3869	27.0900	26.1059	25.2847	24.5052	24.1019	0.9841	0.8212
##	2452	BRIGHT	25.1298	24.5648	23.7137	23.1727	23.0269	22.8310	0.8511	0.5410
##	2453	FAINT	26.0385	25.9857	25.8742	25.8150	25.9827	25.9878	0.1115	0.0592
##	2454	FAINT	27.0413	27.3379	27.1158	26.5611	25.9530	26.8729	0.2221	0.5547
##	2455	FAINT	27.7445	27.1429	26.6679	26.2915	26.1410	27.0540	0.4750	0.3764
##	2456	FAINT	28.4491	27.3230	27.2043	26.3203	25.8791	27.1968	0.1187	0.8840
##	2457	BRIGHT	24.1810	23.4818	22.1260	20.9381	20.4009	20.0812	1.3558	1.1879
##	2458	FAINT	28.5337	27.1526	26.4054	25.8465	25.8524	25.4443	0.7472	0.5589
##	2459	FAINT	29.2684	28.7468	27.9298	26.6505	26.0348	25.1913	0.8170	1.2793
##	2460	FAINT	27.2045	26.9842	26.4101	26.6437	26.1292	26.2526	0.5741	-0.2336
##	2461	FAINT	27.3337	27.2932	26.8480	26.5377	26.2136	26.3846	0.4452	0.3103
##	2462	FAINT	29.3578	27.9978	27.7979	26.9438	26.3270	26.3831	0.1999	0.8541
##	2463	BRIGHT	26.3706	26.0837	25.4322	24.7174	24.2569	23.5309	0.6515	0.7148
##	2464	FAINT	28.3932	27.3478	26.5655	26.2711	25.8894	27.5348	0.7823	0.2944
##	2465	FAINT	28.0313	28.9826	27.2294	26.2069	25.7677	24.9368	1.7532	1.0225
##	2466	BRIGHT	25.2208	23.6384	22.1152	21.3367	20.9585	20.7168	1.5232	0.7785
##	2467	BRIGHT	26.0105	25.0084	23.6765	22.9109	22.5688	22.2958	1.3319	0.7656
##	2468	FAINT	29.2434	28.1093	26.8215	25.6948	24.6056	24.0047	1.2878	1.1267

##	2469	FAINT	28.4261	27.4100	26.1794	25.6880	25.7596	25.2005	1.2306	0.4914
##	2470	BRIGHT	25.3926	24.2295	22.8430	22.2983	21.9736	21.8105	1.3865	0.5447
##	2471	BRIGHT	22.9123	22.1191	21.7022	21.4471	21.5038	21.4628	0.4169	0.2551
##	2472	BRIGHT	24.3347	23.7707	23.7054	23.4954	23.6570	23.7113	0.0653	0.2100
##	2473	BRIGHT	26.3734	25.4035	24.4219	23.8358	23.7150	23.6365	0.9816	0.5861
##	2474	FAINT	27.2378	26.6655	26.0330	25.1236	24.8965	24.9761	0.6325	0.9094
##	2475	FAINT	27.0819	26.7704	25.6221	25.2833	25.3461	24.8931	1.1483	0.3388
##	2476	FAINT	26.0137	26.1112	25.8771	25.6400	25.5572	25.1009	0.2341	0.2371
##	2477	FAINT	26.7798	26.7041	26.3764	26.6247	26.2643	26.3649	0.3277	-0.2483
##	2478	FAINT	27.3181	28.5098	27.0661	26.4477	26.1184	25.7432	1.4437	0.6184
##	2479	FAINT	27.4545	28.0346	26.9348	26.2164	25.5570	25.3777	1.0998	0.7184
##	2480	FAINT	27.3448	26.7486	26.1307	26.0001	25.8099	25.5834	0.6179	0.1306
##	2481	BRIGHT	25.8173	25.2040	24.5104	23.6588	23.3864	23.2561	0.6936	0.8516
##	2482	FAINT	26.9630	27.4407	26.4021	25.3497	25.1562	25.0762	1.0386	1.0524
##	2483	BRIGHT	25.6670	25.4944	25.0667	24.5829	23.9568	23.4487	0.4277	0.4838
##	2484	BRIGHT	26.7373	25.7111	24.6854	24.1891	24.1322	23.9057	1.0257	0.4963
##	2485	BRIGHT	25.8499	25.3929	24.9441	24.4497	23.8786	23.7821	0.4488	0.4944
##	2486	BRIGHT	29.1281	27.4711	25.2595	23.8464	23.0491	22.0944	2.2116	1.4131
##	2487	FAINT	28.2240	27.0053	26.7353	26.4855	26.4233	26.2004	0.2700	0.2498
##	2488	FAINT	28.0412	27.1132	26.3035	25.9934	26.0521	27.0567	0.8097	0.3101
##	2489	FAINT	28.2476	28.6741	26.5296	25.3598	24.5978	24.2830	2.1445	1.1698
##	2490	FAINT	27.6780	26.9694	25.9121	25.4869	25.1191	25.2159	1.0573	0.4252
##	2491	BRIGHT	24.5936	23.9733	23.0554	22.5834	22.3961	22.1630	0.9179	0.4720
##	2492	FAINT	28.2734	27.5389	26.7993	26.7477	26.6543	26.5607	0.7396	0.0516
##	2493	FAINT	26.1770	25.8976	25.4676	25.0735	25.2007	25.3421	0.4300	0.3941
##	2494	FAINT	30.8403	27.4302	26.9904	26.6127	26.5466	27.2489	0.4398	0.3777
##	2495	BRIGHT	26.3382	26.0154	25.1068	24.2725	23.6793	23.4221	0.9086	0.8343
##	2496	FAINT	30.0469	28.8267	27.8434	26.8755	26.9275	26.6392	0.9833	0.9679
##	2497	FAINT	26.3580	26.8554	26.4660	26.2252	25.9553	25.4441	0.3894	0.2408
##	2498	FAINT	28.9058	27.5345	26.5256	25.7102	25.2308	24.8725	1.0089	0.8154
##	2499	FAINT	27.0248	26.8102	26.5451	25.5592	25.0510	24.3344	0.2651	0.9859
##	2500	FAINT	30.8193	26.8385	26.0577	25.3280	24.6541	24.7903	0.7808	0.7297
##	2501	FAINT	25.8527	25.9034	25.8444	25.2826	25.1655	24.9687	0.0590	0.5618
##	2502	FAINT	28.8111	27.7293	26.4302	25.9152	25.6732	25.4310	1.2991	0.5150
##	2503	FAINT	26.9340	26.5557	25.7624	25.0394	24.5060	24.2205	0.7933	0.7230
##	2504	FAINT	27.0345	27.9915	26.9135	26.2451	26.3371	26.0258	1.0780	0.6684
##	2505	FAINT	27.3400	27.5280	26.2913	25.6386	24.7874	24.7595	1.2367	0.6527
##	2506	FAINT	28.5460	28.2688	27.8133	26.9011	26.1056	24.9574	0.4555	0.9122
##	2507	BRIGHT	26.4271	26.4778	25.7321	24.9156	24.4554	24.0681	0.7457	0.8165
##	2508	FAINT	28.1600	27.3327	26.7044	26.0176	25.6507	25.4104	0.6283	0.6868
##	2509	BRIGHT	24.5235	24.1238	23.6183	23.5060	23.3027	23.4430	0.5055	0.1123
##	2510	FAINT	26.6913	26.7175	26.2816	25.9738	26.0375	25.5492	0.4359	0.3078
##	2511	FAINT	28.2913	27.2302	27.2555	26.6976	26.7285	26.0252	-0.0253	0.5579
##	2512	FAINT	29.2727	29.2291	28.0122	26.5212	26.0272	26.2406	1.2169	1.4910
##	2513	FAINT	27.7275	27.7785	26.9625	26.8070	26.0243	26.4940	0.8160	0.1555
##	2514	BRIGHT	27.5110	26.4903	25.3773	24.9599	24.7062	24.4957	1.1130	0.4174
##	2515	FAINT	25.9382	25.9502	25.6888	25.7205	25.5884	25.0716	0.2614	-0.0317
##	2516	FAINT	27.7940	26.9072	26.0459	25.1941	24.4064	24.0981	0.8613	0.8518
##	2517	FAINT	27.7259	27.6848	27.0886	26.2113	26.2624	25.9165	0.5962	0.8773
##	2518	FAINT	28.8688	27.6697	27.3426	26.6067	26.1469	27.0429	0.3271	0.7359
##	2519	FAINT	27.2000	27.0230	26.5341	25.7236	25.5479	25.5081	0.4889	0.8105
##	2520	FAINT	26.4295	26.3723	26.1231	25.5401	25.1373	24.9573	0.2492	0.5830
##	2521	BRIGHT	24.2858	24.2752	23.8468	23.0371	22.5457	22.2351	0.4284	0.8097
##	2522	FAINT	26.9401	26.9915	26.4237	26.1272	25.9921	25.6164	0.5678	0.2965
##	2523	BRIGHT	26.9284	25.5824	23.4815	22.3417	21.4477	21.0577	2.1009	1.1398
##	2524	FAINT	27.4053	27.1085	26.7916	26.3146	25.6321	26.1148	0.3169	0.4770
##	2525	FAINT	27.8885	26.9374	26.4275	26.4215	26.1415	25.4690	0.5099	0.0060
##	2526	BRIGHT	22.6383	21.6301	20.7251	20.4110	20.1517	20.0852	0.9050	0.3141
##	2527	FAINT	27.9783	26.9952	26.3521	26.1827	26.2634	26.5884	0.6431	0.1694
##	2528	BRIGHT	25.3318	24.6057	23.7240	23.5435	23.3854	23.2864	0.8817	0.1805
##	2529	FAINT	28.8553	27.4625	27.2259	26.8246	26.3973	25.9301	0.2366	0.4013
##	2530	BRIGHT	24.5287	24.2494	23.5799	22.9727	22.8241	22.7273	0.6695	0.6072
##	2531	FAINT	29.6284	27.3169	26.6082	26.0395	25.5989	25.6506	0.7087	0.5687
##	2532	BRIGHT	26.3373	25.4702	24.4941	23.8954	23.6516	23.3406	0.9761	0.5987
##	2533	BRIGHT	26.9401	25.6940	23.9785	22.7080	22.0832	21.7457	1.7155	1.2705
##	2534	FAINT	30.9733	28.5131	27.1684	26.8335	26.4289	25.8633	1.3447	0.3349
##	2535	BRIGHT	26.2745	25.8163	24.8592	24.7240	24.5980	24.4599	0.9571	0.1352
##	2536	BRIGHT	25.8413	24.0595	22.5249	21.6558	21.3050	21.0012	1.5346	0.8691
##	2537	BRIGHT	26.3971	25.5481	24.6481	24.3931	24.2742	24.0482	0.9000	0.2550
##	2538	BRIGHT	26.0813	25.4318	24.5182	23.7649	23.5455	23.4434	0.9136	0.7533
##	2539	BRIGHT	26.9008	26.2665	25.6783	24.6482	24.1323	23.1694	0.5882	1.0301
##	2540	BRIGHT	25.8543	25.7028	25.0910	24.4068	23.6127	23.2077	0.6118	0.6842
##	2541	FAINT	26.9936	26.6904	25.7308	25.1351	24.8091	24.6239	0.9596	0.5957
##	2542	FAINT	28.2496	27.1122	26.6912	25.9192	25.7036	25.7389	0.4210	0.7720
##	2543	BRIGHT	26.2280	25.7330	25.0361	24.8401	24.7104	24.5759	0.6969	0.1960
##	2544	BRIGHT	27.1210	26.1228	25.5529	24.8684	24.6900	24.5173	0.5699	0.6845
##	2545	FAINT	26.5875	26.0303	25.7599	25.4463	24.8869	24.5903	0.2704	0.3136
##	2546	FAINT	29.5038	27.7660	26.6357	26.1209	26.0880	26.4806	1.1303	0.5148
##	2547	FAINT	28.6305	28.3177	26.3049	25.2550	24.3798	23.8321	2.0128	1.0499

##	2548	FAINT	26.7224	26.5433	26.1147	25.8727	25.4085	25.5061	0.4286	0.2420
##	2549	FAINT	27.2091	26.8687	26.6822	26.4226	26.1586	25.5901	0.1865	0.2596
##	2550	FAINT	27.5271	27.1540	27.1038	26.6377	27.3711	27.0109	0.0502	0.4661
##	2551	FAINT	28.6141	27.2001	26.5903	25.9721	25.9954	25.6876	0.6098	0.6182
##	2552	BRIGHT	25.8093	25.4597	24.8668	24.1531	23.9489	23.6465	0.5929	0.7137
##	2553	BRIGHT	27.5041	25.8515	24.7243	24.3157	24.0696	23.9408	1.1272	0.4086
##	2554	BRIGHT	26.8179	25.2491	23.8260	23.2139	22.8815	22.6381	1.4231	0.6121
##	2555	FAINT	28.5965	27.7139	27.2392	25.6079	24.6646	23.9857	0.4747	1.6313
##	2556	FAINT	27.0681	27.3251	26.0285	25.7976	25.7141	25.7139	1.2966	0.2309
##	2557	FAINT	29.1923	27.8775	27.4595	26.8471	26.6466	29.1076	0.4180	0.6124
##	2558	FAINT	27.0678	26.5203	25.6569	25.1081	24.9770	24.7353	0.8634	0.5488
##	2559	BRIGHT	25.1232	24.2440	23.1479	22.8140	22.5733	22.5184	1.0961	0.3339
##	2560	FAINT	29.3655	29.5848	28.5484	26.9066	26.5129	25.9745	1.0364	1.6418
##	2561	FAINT	27.4149	27.0332	26.4220	25.9865	24.9179	24.7519	0.6112	0.4355
##	2562	FAINT	28.3224	27.0199	26.3202	25.7794	24.9083	24.0703	0.6997	0.5408
##	2563	BRIGHT	25.3434	25.0465	24.2115	23.2856	22.7712	22.5205	0.8350	0.9259
##	2564	FAINT	28.8291	27.8121	26.7559	26.0592	25.7715	25.4670	1.0562	0.6967
##	2565	FAINT	26.4958	26.6262	26.0950	25.5548	25.1762	24.8293	0.5312	0.5402
##	2566	FAINT	27.3709	28.6264	27.4703	26.6349	25.7138	26.1481	1.1561	0.8354
##	2567	BRIGHT	25.9767	24.1001	22.4936	21.5730	21.1856	20.8890	1.6065	0.9206
##	2568	BRIGHT	26.7501	25.5367	24.5531	24.1775	24.0251	23.7762	0.9836	0.3756
##	2569	FAINT	30.5744	27.8415	26.8546	26.2045	25.8475	24.8153	0.9869	0.6501
##	2570	FAINT	27.9301	26.7622	25.9035	25.3786	25.0537	25.1092	0.8587	0.5249
##	2571	BRIGHT	26.4313	24.5734	22.8414	21.5222	20.9922	20.6053	1.7320	1.3192
##	2572	FAINT	28.6738	27.5278	27.3705	26.9925	27.1776	25.9315	0.1573	0.3780
##	2573	BRIGHT	27.6187	26.7819	25.2622	24.3503	24.0395	23.7432	1.5197	0.9119
##	2574	BRIGHT	26.6019	25.3041	24.1947	23.7668	23.4745	23.3969	1.1094	0.4279
##	2575	FAINT	27.9402	28.3982	27.0286	26.1673	25.6365	25.7170	1.3696	0.8613
##	2576	FAINT	27.2161	26.8488	26.2436	26.0756	25.9766	25.7350	0.6052	0.1680
##	2577	FAINT	27.7578	27.4712	27.1965	26.6950	26.9989	28.5273	0.2747	0.5015
##	2578	FAINT	28.2227	27.9260	26.8281	26.3839	25.7269	25.7092	1.0979	0.4442
##	2579	FAINT	29.9214	28.9540	27.3519	26.2574	25.8675	25.2696	1.6021	1.0945
##	2580	FAINT	26.7485	26.5449	26.4394	26.2456	25.8153	25.3638	0.1055	0.1938
##	2581	BRIGHT	23.7561	23.2461	22.2602	21.3599	21.0157	20.7555	0.9859	0.9003
##	2582	BRIGHT	25.9340	25.7874	25.3612	24.7525	24.0809	23.7923	0.4262	0.6087
##	2583	FAINT	29.9426	26.9332	26.5166	25.9871	25.2503	25.2496	0.4166	0.5295
##	2584	BRIGHT	26.0835	25.3520	24.8982	24.6817	24.5286	24.6010	0.4538	0.2165
##	2585	FAINT	27.5655	26.7433	25.6859	25.2449	25.4091	24.9554	1.0574	0.4410
##	2586	FAINT	26.5725	26.3441	26.1133	25.8137	25.3412	25.0250	0.2308	0.2996
##	2587	BRIGHT	26.8255	26.3534	25.5749	24.9473	24.2765	24.0757	0.7785	0.6276
##	2588	BRIGHT	26.2482	25.6406	24.8980	24.4943	24.3492	24.2545	0.7426	0.4037
##	2589	FAINT	27.2458	27.1497	26.9854	26.8347	26.9882	25.9625	0.1643	0.1507
##	2590	FAINT	27.4807	26.8321	26.0271	25.6763	25.5605	25.4674	0.8050	0.3508
##	2591	BRIGHT	25.5887	25.4606	25.3565	24.9772	24.5594	24.6085	0.1041	0.3793
##	2592	BRIGHT	26.0138	25.5274	24.5810	24.1676	24.0051	23.7597	0.9464	0.4134
##	2593	BRIGHT	22.9068	21.8863	21.3587	21.0712	20.9777	20.8521	0.5276	0.2875
##	2594	BRIGHT	25.4830	25.4737	24.8788	24.2502	24.1224	23.9497	0.5949	0.6286
##	2595	BRIGHT	25.7112	24.7553	24.3095	24.0578	24.0776	24.0341	0.4458	0.2517
##	2596	FAINT	27.2016	26.7692	26.3255	25.9737	25.5121	25.3008	0.4437	0.3518
##	2597	FAINT	29.0107	26.9130	26.0774	25.5893	25.3425	24.9886	0.8356	0.4881
##	2598	BRIGHT	25.7411	25.1482	24.7152	24.1282	23.8578	23.1917	0.4330	0.5870
##	2599	BRIGHT	26.5446	25.9894	25.0190	24.4331	24.3425	24.1034	0.9704	0.5859
##	2600	FAINT	28.4545	28.0742	27.2757	26.4879	26.7428	26.2447	0.7985	0.7878
##	2601	BRIGHT	24.4232	24.4087	24.3475	24.2735	24.3651	24.4664	0.0612	0.0740
##	2602	BRIGHT	26.4016	25.7771	24.7103	24.2438	24.1061	23.6797	1.0668	0.4665
##	2603	BRIGHT	23.6075	21.9797	20.6378	20.1172	19.8162	19.5855	1.3419	0.5206
##	2604	BRIGHT	30.0311	26.5943	25.2514	24.5673	24.2860	23.8988	1.3429	0.6841
##	2605	BRIGHT	27.3031	26.4045	24.9543	23.9313	23.6031	23.2640	1.4502	1.0230
##	2606	FAINT	26.7072	26.2958	25.7946	25.3345	25.0661	25.1566	0.5012	0.4601
##	2607	BRIGHT	25.2611	24.9050	24.4261	24.0210	23.3983	22.9513	0.4789	0.4051
##	2608	BRIGHT	26.1053	24.7844	23.6252	23.1947	22.9331	22.7924	1.1592	0.4305
##	2609	FAINT	26.8805	26.9992	26.2980	26.3233	25.8842	26.1446	0.7012	-0.0253
##	2610	BRIGHT	24.9856	24.5135	24.0616	23.6956	23.2394	22.7956	0.4519	0.3660
##	2611	BRIGHT	28.5181	27.2611	26.1048	24.9312	24.5075	24.2734	1.1563	1.1736
##	2612	BRIGHT	26.4201	25.4467	24.8484	24.6086	24.4215	24.1837	0.5983	0.2398
##	2613	BRIGHT	25.1373	24.7538	24.1656	23.3932	23.0207	22.8004	0.5882	0.7724
##	2614	FAINT	26.7590	27.2001	26.7009	25.5460	25.2371	25.1981	0.4992	1.1549
##	2615	BRIGHT	27.8320	26.6835	25.3281	24.2725	23.9430	23.7181	1.3554	1.0556
##	2616	BRIGHT	25.8776	24.8353	23.6838	23.3031	22.9731	22.8884	1.1515	0.3807
##	2617	FAINT	26.6441	26.2576	25.4746	25.4473	25.2045	24.8785	0.7830	0.0273
##	2618	FAINT	27.1343	26.9085	26.4847	26.1360	26.0414	26.3165	0.4238	0.3487
##	2619	FAINT	28.4471	28.3846	27.7743	26.7356	25.9858	25.7702	0.6103	1.0387
##	2620	BRIGHT	23.3443	22.7197	22.0544	21.8280	21.5611	21.5228	0.6653	0.2264
##	2621	FAINT	28.8535	27.0097	26.5889	26.2301	26.3905	25.6392	0.4208	0.3588
##	2622	BRIGHT	24.3310	22.6822	21.1193	20.4872	20.1102	19.8635	1.5629	0.6321
##	2623	BRIGHT	25.1562	24.8443	24.3593	23.6937	23.2345	23.0769	0.4850	0.6656
##	2624	BRIGHT	27.3201	25.7391	24.0836	22.9228	22.5156	22.1842	1.6555	1.1608
##	2625	FAINT	29.5981	27.9844	27.5932	26.8688	26.7161	27.5366	0.3912	0.7244
##	2626	FAINT	28.3517	28.0828	27.1866	26.3693	26.5322	25.7952	0.8962	0.8173

##	2627	FAINT	29.6185	28.6273	27.7011	26.7756	25.8635	26.2782	0.9262	0.9255
##	2628	BRIGHT	27.3486	27.4759	26.2634	24.2814	23.5656	22.6040	1.2125	1.9820
##	2629	BRIGHT	24.1838	23.4901	22.5357	22.2127	22.0388	21.8185	0.9544	0.3230
##	2630	FAINT	28.5567	27.6392	26.6850	26.3526	26.3753	25.4632	0.9542	0.3324
##	2631	BRIGHT	25.4737	25.1850	24.7204	24.3567	23.7897	23.5061	0.4646	0.3637
##	2632	FAINT	28.1541	26.9694	26.1272	25.6860	25.7722	25.8922	0.8422	0.4412
##	2633	FAINT	27.6422	27.4797	26.7657	26.3906	26.0295	25.6298	0.7140	0.3751
##	2634	FAINT	26.9047	26.7914	26.3351	25.7633	24.8931	24.4806	0.4563	0.5718
##	2635	BRIGHT	26.1902	25.3502	24.5723	23.6783	23.2911	23.0705	0.7779	0.8940
##	2636	BRIGHT	25.2748	24.7471	23.6374	22.7823	21.8984	21.3165	1.1097	0.8551
##	2637	FAINT	26.8942	27.7831	26.7095	26.3654	26.2678	26.4069	1.0736	0.3441
##	2638	BRIGHT	26.6624	25.8491	25.1588	24.2484	24.0206	23.8362	0.6903	0.9104
##	2639	BRIGHT	29.8820	27.6694	25.5454	24.4557	23.4254	22.7222	2.1240	1.0897
##	2640	FAINT	27.6947	28.2342	27.9343	26.9887	27.1249	26.7426	0.2999	0.9456
##	2641	FAINT	26.3702	26.5219	26.7615	26.9189	27.2066	26.3657	-0.2396	-0.1574
##	2642	BRIGHT	25.5752	25.0546	24.3713	23.7787	23.1279	22.8715	0.6833	0.5926
##	2643	BRIGHT	27.0302	25.8543	25.0712	24.7504	24.5146	24.3510	0.7831	0.3208
##	2644	FAINT	27.0146	26.2938	25.5979	25.2896	25.0447	24.6792	0.6959	0.3083
##	2645	FAINT	27.5024	27.8324	27.3930	26.3336	26.0847	26.3928	0.4394	1.0594
##	2646	FAINT	25.6948	25.8730	25.4882	25.0361	24.4348	24.4815	0.3848	0.4521
##	2647	FAINT	29.5732	26.7805	25.8056	25.4012	25.4560	25.4460	0.9749	0.4044
##	2648	BRIGHT	28.2598	28.0679	26.1285	24.9298	24.1980	23.5931	1.9394	1.1987
##	2649	BRIGHT	27.0931	26.4860	24.9767	23.8762	23.5117	23.2535	1.5093	1.1005
##	2650	FAINT	27.3247	27.2510	26.0383	25.1271	24.5332	24.5105	1.2127	0.9112
##	2651	FAINT	26.7248	27.0579	26.7865	26.3544	25.8729	25.8319	0.2714	0.4321
##	2652	FAINT	26.8210	27.7486	27.0887	26.8677	26.7185	26.1565	0.6599	0.2210
##	2653	FAINT	25.7679	25.8860	26.0374	26.1183	26.1383	25.3891	-0.1514	-0.0809
##	2654	FAINT	27.1599	27.3279	26.6598	26.3843	26.1825	26.0429	0.6681	0.2755
##	2655	BRIGHT	25.7711	24.9253	23.6591	22.6510	22.3145	22.0284	1.2662	1.0081
##	2656	BRIGHT	27.1163	25.7027	24.0799	22.8161	21.9870	21.1404	1.6228	1.2638
##	2657	FAINT	28.8456	27.3320	26.3607	25.9447	25.9524	26.0665	0.9713	0.4160
##	2658	FAINT	27.6459	27.1604	26.3087	25.9331	25.3696	26.7387	0.8517	0.3756
##	2659	FAINT	26.7707	26.5494	26.3998	26.1246	26.0204	25.9501	0.1496	0.2752
##	2660	BRIGHT	24.5255	22.3971	20.7686	20.1264	19.7970	19.5910	1.6285	0.6422
##	2661	FAINT	27.6945	27.0744	26.3104	25.8614	25.9494	25.3340	0.7640	0.4490
##	2662	FAINT	29.2586	27.8118	27.2497	26.2166	25.6514	25.7070	0.5621	1.0331
##	2663	FAINT	26.7550	26.1872	25.9713	25.6816	25.3511	24.7548	0.2159	0.2897
##	2664	FAINT	26.0518	26.1766	26.0220	25.7755	25.1390	24.8161	0.1546	0.2465
##	2665	BRIGHT	26.6776	25.3270	23.8120	22.6179	22.0760	21.7529	1.5150	1.1941
##	2666	BRIGHT	25.6625	25.0502	24.7073	24.5063	24.5722	25.0222	0.3429	0.2010
##	2667	BRIGHT	25.6074	25.0335	24.1003	23.5095	23.3447	23.2270	0.9332	0.5908
##	2668	BRIGHT	25.0790	23.5368	22.3642	21.9062	21.5847	21.4018	1.1726	0.4580
##	2669	FAINT	27.9710	27.7962	26.9366	26.1747	25.9812	25.4027	0.8596	0.7619
##	2670	FAINT	28.2939	27.7591	27.0083	26.3131	25.3545	25.0169	0.7508	0.6952
##	2671	FAINT	27.1383	27.2994	26.9534	26.4424	26.4772	25.9095	0.3460	0.5110
##	2672	FAINT	28.0983	27.5748	26.7663	26.0263	25.5173	25.2129	0.8085	0.7400
##	2673	BRIGHT	27.0630	25.9083	24.9684	23.9867	23.6745	23.4712	0.9399	0.9817
##	2674	BRIGHT	23.3219	22.8444	22.6161	22.4179	22.4044	22.3589	0.2283	0.1982
##	2675	FAINT	26.9531	27.0124	26.8654	26.5588	26.3039	25.2871	0.1470	0.3066
##	2676	FAINT	28.3567	26.5640	26.2856	25.5154	25.3389	26.1772	0.2784	0.7702
##	2677	BRIGHT	27.1785	26.3667	25.1876	24.6177	24.4430	24.0723	1.1791	0.5699
##	2678	BRIGHT	27.4714	26.1949	25.0037	24.3989	24.1350	23.8644	1.1912	0.6048
##	2679	FAINT	27.6084	27.3367	26.3429	26.1092	25.7116	26.1237	0.9938	0.2337
##	2680	BRIGHT	28.4639	26.7139	24.9286	23.7942	22.9156	22.5458	1.7853	1.1344
##	2681	FAINT	28.9358	27.7202	27.4876	26.7235	26.2994	25.2467	0.2326	0.7641
##	2682	BRIGHT	25.2927	25.3163	24.8855	24.2546	23.9838	23.8678	0.4308	0.6309
##	2683	FAINT	28.8688	27.9284	27.2120	26.2966	25.8346	25.9270	0.7164	0.9154
##	2684	BRIGHT	25.2271	25.0384	24.6006	24.5467	24.1619	24.3923	0.4378	0.0539
##	2685	FAINT	29.8083	28.3627	27.4060	26.8897	27.1307	26.3460	0.9567	0.5163
##	2686	FAINT	26.8629	26.8491	25.9521	25.6053	25.6907	24.8139	0.8970	0.3468
##	2687	BRIGHT	25.6187	24.4588	23.2553	22.7633	22.5255	22.3229	1.2035	0.4920
##	2688	FAINT	27.8929	26.7891	26.7761	26.1438	26.2376	25.4744	0.0130	0.6323
##	2689	FAINT	28.2672	27.2774	26.5292	25.8749	25.3452	25.0909	0.7482	0.6543
##	2690	BRIGHT	22.7180	22.1753	21.4165	20.8406	20.6980	20.5270	0.7588	0.5759
##	2691	BRIGHT	25.0182	24.4823	23.6962	23.2748	23.1265	22.8546	0.7861	0.4214
##	2692	FAINT	28.0282	27.7629	26.9346	25.9513	24.6336	23.9970	0.8283	0.9833
##	2693	FAINT	25.8868	25.9971	25.9160	25.8960	26.3449	25.8322	0.0811	0.0200
##	2694	BRIGHT	26.8225	26.2167	25.4705	24.7273	24.5024	23.6838	0.7462	0.7432
##	2695	FAINT	25.8922	26.2564	26.0926	26.2512	26.2177	27.7038	0.1638	-0.1586
##	2696	BRIGHT	25.4423	25.4130	25.2860	24.9985	24.6726	24.0298	0.1270	0.2875
##	2697	BRIGHT	26.4157	25.5739	24.7948	24.6063	24.3876	24.3578	0.7791	0.1885
##	2698	BRIGHT	25.8742	25.5318	24.7009	24.4138	24.2375	24.1942	0.8309	0.2871
##	2699	BRIGHT	26.5586	25.6171	24.1588	23.1839	22.3573	21.9314	1.4583	0.9749
##	2700	FAINT	27.7669	28.2729	26.5305	25.3646	24.3582	24.1458	1.7424	1.1659
##	2701	BRIGHT	26.8110	26.1837	25.5521	24.9380	24.6545	24.0387	0.6316	0.6141
##	2702	BRIGHT	25.6929	25.2849	24.4321	23.7386	23.5000	23.2205	0.8528	0.6935
##	2703	FAINT	27.3116	28.6633	27.4334	26.5129	26.1044	26.2048	1.2299	0.9205
##	2704	BRIGHT	24.3787	24.3488	24.1002	23.6531	23.3160	23.1148	0.2486	0.4471
##	2705	BRIGHT	25.7865	25.5270	25.2915	24.8941	24.6927	24.0887	0.2355	0.3974

##	2706	FAINT	27.2151	26.4468	25.8039	25.0872	24.8118	24.7971	0.6429	0.7167
##	2707	BRIGHT	25.7333	25.0914	24.1530	23.3894	22.5394	21.9426	0.9384	0.7636
##	2708	FAINT	27.2509	27.9067	27.6172	26.5270	26.6672	26.4769	0.2895	1.0902
##	2709	FAINT	27.6286	27.0732	26.3009	25.8975	25.9683	25.7625	0.7723	0.4034
##	2710	FAINT	27.8364	28.5186	27.5302	26.7685	26.6323	31.0026	0.9884	0.7617
##	2711	FAINT	29.4664	28.1444	27.1825	26.2744	25.7499	26.1400	0.9619	0.9081
##	2712	BRIGHT	22.9026	22.2518	21.3477	21.0691	20.8315	20.7656	0.9041	0.2786
##	2713	BRIGHT	27.6914	27.3541	24.9590	23.8231	22.8336	22.0835	2.3951	1.1359
##	2714	BRIGHT	25.7791	24.7962	23.8582	23.6409	23.3492	23.5349	0.9380	0.2173
##	2715	FAINT	27.3247	26.4432	25.8457	25.2382	24.5484	24.0682	0.5975	0.6075
##	2716	BRIGHT	23.3677	22.6456	21.7005	21.3942	21.2306	20.9864	0.9451	0.3063
##	2717	BRIGHT	22.0564	21.6172	21.5166	21.3534	21.3730	21.2774	0.1006	0.1632
##	2718	FAINT	27.7176	28.5005	27.4733	26.8830	26.9678	27.3034	1.0272	0.5903
##	2719	FAINT	25.8970	26.2936	26.2161	26.4454	25.9339	25.9612	0.0775	-0.2293
##	2720	FAINT	27.5186	26.5669	26.0433	25.6077	25.4184	25.1826	0.5236	0.4356
##	2721	FAINT	28.1616	27.7708	26.6740	25.8514	25.7186	25.9464	1.0968	0.8226
##	2722	FAINT	27.6919	26.6195	25.9667	25.3673	25.1939	24.8768	0.6528	0.5994
##	2723	BRIGHT	24.4236	22.5979	21.0056	19.8446	19.4433	19.0918	1.5923	1.1610
##	2724	FAINT	25.9304	26.0315	25.9398	25.9738	25.8515	26.3725	0.0917	-0.0340
##	2725	FAINT	29.8517	26.7365	25.9350	25.3882	25.3158	25.0324	0.8015	0.5468
##	2726	FAINT	31.4966	27.5325	27.1445	26.3533	25.9673	24.8244	0.3880	0.7912
##	2727	BRIGHT	26.1695	25.6061	24.9105	24.7420	24.6654	24.6026	0.6956	0.1685
##	2728	FAINT	27.6933	27.9927	27.6417	26.7484	26.3785	26.0694	0.3510	0.8933
##	2729	FAINT	27.0374	26.5715	25.8449	25.6501	25.3214	25.0921	0.7266	0.1948
##	2730	FAINT	27.5533	27.7184	27.1669	26.4977	26.1538	25.6919	0.5515	0.6692
##	2731	BRIGHT	25.0434	24.4189	23.5740	23.1724	22.9422	22.7283	0.8449	0.4016
##	2732	FAINT	26.8574	27.3938	27.0301	26.2640	26.1139	25.0615	0.3637	0.7661
##	2733	FAINT	26.8442	27.0530	26.9902	26.7066	26.7381	26.4992	0.0628	0.2836
##	2734	FAINT	26.1506	26.0196	25.7866	25.9956	25.3826	25.7940	0.2330	-0.2090
##	2735	FAINT	26.5943	26.1052	25.8227	25.4484	25.2140	24.6220	0.2825	0.3743
##	2736	FAINT	27.0907	26.5501	25.9065	25.9799	25.6487	25.6795	0.6436	-0.0734
##	2737	FAINT	28.6793	30.0671	28.5549	26.8768	26.3616	27.9765	1.5122	1.6781
##	2738	FAINT	27.2177	26.6274	26.1585	25.5951	25.1486	24.1423	0.4689	0.5634
##	2739	FAINT	28.9842	27.4364	26.6949	25.9514	25.1236	24.7266	0.7415	0.7435
##	2740	FAINT	28.5385	27.7514	26.8745	25.2094	24.5042	23.3903	0.8769	1.6651
##	2741	FAINT	30.1515	27.7284	26.9349	26.3228	26.0923	25.8018	0.7935	0.6121
##	2742	BRIGHT	28.1094	27.5220	26.0709	24.3182	23.5710	22.5530	1.4511	1.7527
##	2743	FAINT	28.5170	27.8625	27.1048	26.4259	25.9618	25.2372	0.7577	0.6789
##	2744	FAINT	26.8135	26.3616	25.6110	25.3076	25.1825	25.2128	0.7506	0.3034
##	2745	FAINT	27.8929	26.9017	25.9903	25.9148	25.5682	25.1563	0.9114	0.0755
##	2746	FAINT	30.4568	30.6126	27.3280	26.4621	25.7577	25.2848	3.2846	0.8659
##	2747	FAINT	28.9397	27.1869	25.8866	25.1901	24.9657	24.6439	1.3003	0.6965
##	2748	FAINT	25.7104	25.7257	25.6035	25.6984	25.5106	26.9372	0.1222	-0.0949
##	2749	FAINT	27.5982	27.1688	26.3529	25.5473	25.2656	25.1835	0.8159	0.8056
##	2750	FAINT	27.6652	27.3290	27.1158	26.6066	26.2553	26.1799	0.2132	0.5092
##	2751	BRIGHT	26.7677	25.4742	25.0102	24.7191	24.6251	24.5688	0.4640	0.2911
##	2752	FAINT	26.6238	26.9297	26.0453	25.8928	25.9573	25.4105	0.8844	0.1525
##	2753	BRIGHT	27.6870	25.1814	23.6406	22.7534	22.4284	22.1057	1.5408	0.8872
##	2754	BRIGHT	25.6626	24.6866	24.0951	23.8312	23.7239	23.6033	0.5915	0.2639
##	2755	BRIGHT	26.0529	25.4413	24.3971	24.0177	23.8530	23.3097	1.0442	0.3794
##	2756	FAINT	27.5936	27.1224	26.5534	26.0033	25.3548	25.2707	0.5690	0.5501
##	2757	FAINT	27.7625	27.4958	27.1713	26.8030	27.2489	26.0134	0.3245	0.3683
##	2758	BRIGHT	30.1221	27.7176	25.9345	24.7586	23.8278	23.1638	1.7831	1.1759
##	2759	BRIGHT	25.4667	24.9026	24.2473	24.0138	23.8724	23.7976	0.6553	0.2335
##	2760	BRIGHT	25.6208	24.8446	23.9800	23.7847	23.6555	23.5292	0.8646	0.1953
##	2761	FAINT	29.4248	27.8407	26.9502	25.8988	24.5396	23.6482	0.8905	1.0514
##	2762	FAINT	26.5543	27.1260	26.5341	26.1662	25.9515	26.2225	0.5919	0.3679
##	2763	BRIGHT	25.5542	25.3303	24.6548	24.4679	24.2837	24.1920	0.6755	0.1869
##	2764	FAINT	29.3977	27.9508	27.7410	26.4943	26.8220	25.6417	0.2098	1.2467
##	2765	BRIGHT	26.0209	25.6280	25.1180	24.5327	24.0195	23.7718	0.5100	0.5853
##	2766	FAINT	28.5676	28.5353	27.2774	26.5596	26.7416	27.6603	1.2579	0.7178
##	2767	FAINT	28.3924	27.9862	26.8774	26.6352	27.0221	26.6009	1.1088	0.2422
##	2768	FAINT	26.9500	27.0917	26.7935	26.1749	26.0774	25.5980	0.2982	0.6186
##	2769	BRIGHT	24.7377	24.1411	23.1971	22.2569	21.7984	21.5730	0.9440	0.9402
##	2770	FAINT	27.2819	27.0912	26.5699	26.1212	26.1063	25.8915	0.5213	0.4487
##	2771	FAINT	27.5373	26.9637	26.1148	25.6282	25.3327	25.5419	0.8489	0.4866
##	2772	FAINT	29.0475	27.6996	27.3659	26.4411	25.8790	25.6166	0.3337	0.9248
##	2773	BRIGHT	27.0152	25.0642	23.4761	22.3006	21.8502	21.4874	1.5881	1.1755
##	2774	FAINT	29.2080	28.6406	27.5633	26.8570	27.7316	28.2005	1.0773	0.7063
##	2775	FAINT	27.2130	26.5810	25.5170	25.0352	25.0469	25.1079	1.0640	0.4818
##	2776	FAINT	26.5984	26.3674	26.4831	26.4334	26.1784	26.6031	-0.1157	0.0497
##	2777	BRIGHT	23.8633	22.6070	21.2599	20.7113	20.3700	20.1566	1.3471	0.5486
##	2778	FAINT	27.8586	27.2582	26.6487	26.2548	25.2990	24.6508	0.6095	0.3939
##	2779	BRIGHT	25.1116	23.8343	22.3946	21.7649	21.3674	21.1145	1.4397	0.6297
##	2780	FAINT	27.6198	26.5219	25.7697	25.3646	25.2930	25.0933	0.7522	0.4051
##	2781	FAINT	27.3487	26.9581	26.1302	25.7208	25.3866	24.7641	0.8279	0.4094
##	2782	FAINT	28.6844	27.3896	26.9449	26.4504	26.3203	29.4901	0.4447	0.4945
##	2783	FAINT	28.2066	29.2523	27.5890	26.6533	26.2721	25.9282	1.6633	0.9357
##	2784	BRIGHT	25.5439	24.8946	24.0550	23.2956	22.8384	22.6810	0.8396	0.7594

##	2785	BRIGHT	25.1386	24.3959	23.3167	22.9977	22.7898	22.6771	1.0792	0.3190
##	2786	FAINT	27.4256	26.1692	25.5880	25.2945	25.3783	25.5422	0.5812	0.2935
##	2787	FAINT	31.7410	27.9307	26.7703	26.6318	25.9478	25.5113	1.1604	0.1385
##	2788	FAINT	27.0258	26.6539	26.1741	26.0960	26.0078	25.4295	0.4798	0.0781
##	2789	FAINT	33.0696	28.2002	26.9653	26.5429	26.2456	26.1575	1.2349	0.4224
##	2790	FAINT	28.9263	31.4260	27.8375	26.6154	25.6877	24.9323	3.5885	1.2221
##	2791	BRIGHT	25.8254	25.5347	24.7890	23.8595	23.3237	23.0865	0.7457	0.9295
##	2792	FAINT	27.7034	27.3274	26.4654	25.6728	25.4924	25.2565	0.8620	0.7926
##	2793	FAINT	28.1657	27.0644	27.1190	26.4490	26.2124	25.6283	-0.0546	0.6700
##	2794	BRIGHT	26.5204	25.3628	23.8384	22.5953	22.0249	21.6781	1.5244	1.2431
##	2795	FAINT	26.2865	26.3814	26.0006	26.0170	25.7156	25.6491	0.3808	-0.0164
##	2796	BRIGHT	26.9101	25.6370	24.9180	24.5639	24.3139	24.1364	0.7190	0.3541
##	2797	BRIGHT	25.8603	25.6407	24.7465	23.8478	23.5176	23.3479	0.8942	0.8987
##	2798	FAINT	27.7387	27.8971	27.6012	26.5664	26.7569	26.0451	0.2959	1.0348
##	2799	FAINT	27.4930	27.3175	26.4965	26.2101	26.3953	25.5797	0.8210	0.2864
##	2800	FAINT	27.9099	26.7962	25.8338	25.6193	25.5912	25.3349	0.9624	0.2145
##	2801	BRIGHT	24.5382	23.4305	22.6088	22.2011	22.0247	21.8232	0.8217	0.4077
##	2802	BRIGHT	26.4626	25.8906	25.2634	24.6038	24.4305	24.3961	0.6272	0.6596
##	2803	BRIGHT	24.9268	24.6779	23.8815	23.1385	22.9514	22.7761	0.7964	0.7430
##	2804	BRIGHT	24.2448	24.0798	23.2827	22.7616	22.6615	22.5018	0.7971	0.5211
##	2805	FAINT	27.7970	26.9641	26.2990	25.7489	25.0301	24.6685	0.6651	0.5501
##	2806	BRIGHT	26.4041	25.5203	24.5182	24.2249	24.1484	23.7858	1.0021	0.2933
##	2807	FAINT	27.9778	26.3994	25.6324	25.0663	24.6911	24.0143	0.7670	0.5661
##	2808	FAINT	26.5091	27.2923	26.7946	26.6750	26.5397	25.4571	0.4977	0.1196
##	2809	FAINT	28.0027	26.8550	26.4632	26.2366	26.0215	25.0562	0.3918	0.2266
##	2810	FAINT	28.1443	27.4376	26.5273	26.0885	26.1113	26.0526	0.9103	0.4388
##	2811	FAINT	25.8238	25.9446	25.8567	25.7827	26.1420	25.6948	0.0879	0.0740
##	2812	FAINT	29.7466	28.9969	27.5611	26.6481	26.1949	26.2789	1.4358	0.9130
##	2813	BRIGHT	22.3873	21.6409	20.7143	20.3373	20.0264	19.8509	0.9266	0.3770
##	2814	BRIGHT	28.0143	27.2022	25.2579	24.1244	23.1665	22.4830	1.9443	1.1335
##	2815	FAINT	26.9699	27.3588	27.0430	26.6038	26.5010	26.4087	0.3158	0.4392
##	2816	FAINT	28.3542	27.8423	26.2927	25.1767	24.2014	23.7199	1.5496	1.1160
##	2817	FAINT	28.4660	27.1877	27.1590	26.1867	25.7749	25.4274	0.0287	0.9723
##	2818	BRIGHT	25.9688	25.7967	25.2565	24.4882	24.2734	24.2170	0.5402	0.7683
##	2819	BRIGHT	25.0430	24.5845	24.4476	24.2460	24.5303	24.2646	0.1369	0.2016
##	2820	FAINT	26.8260	26.6417	26.2908	25.7738	25.4058	25.0654	0.3509	0.5170
##	2821	FAINT	26.3638	26.6109	25.9707	25.1436	24.8359	24.8525	0.6402	0.8271
##	2822	BRIGHT	26.2512	25.8952	25.1398	24.3898	23.7782	23.7325	0.7554	0.7500
##	2823	BRIGHT	27.1910	25.5276	24.5140	24.1160	23.9928	23.7304	1.0136	0.3980
##	2824	FAINT	27.1797	26.4934	26.1750	25.9216	25.3035	24.9089	0.3184	0.2534
##	2825	FAINT	27.5617	28.3731	27.3733	26.9846	26.5102	26.4651	0.9998	0.3887
##	2826	BRIGHT	26.3134	25.7422	24.7059	24.4585	24.1211	24.1752	1.0363	0.2474
##	2827	BRIGHT	26.7156	25.5458	23.9398	22.6496	22.1208	21.7709	1.6060	1.2902
##	2828	FAINT	27.8683	27.0833	26.3570	25.7378	25.1036	24.4416	0.7263	0.6192
##	2829	FAINT	28.7804	29.4964	27.4380	26.1218	25.6780	24.8478	2.0584	1.3162
##	2830	FAINT	27.5470	27.1093	27.3747	26.8712	26.3327	25.9487	-0.2654	0.5035
##	2831	FAINT	27.4079	27.9617	26.7392	25.7823	25.1884	24.7827	1.2225	0.9569
##	2832	BRIGHT	24.0022	22.8807	21.6269	21.2280	20.9303	20.8139	1.2538	0.3989
##	2833	BRIGHT	26.6605	26.1094	25.6559	24.9790	24.8741	24.8092	0.4535	0.6769
##	2834	FAINT	27.8311	27.8652	27.3864	26.6275	25.9755	25.5378	0.4788	0.7589
##	2835	BRIGHT	26.4162	26.0433	25.0200	24.4122	24.3047	24.0518	1.0233	0.6078
##	2836	FAINT	29.7462	27.3766	27.3762	26.9591	26.4075	26.2400	0.0004	0.4171
##	2837	FAINT	26.7545	27.0123	26.2546	25.5022	25.4019	25.0829	0.7577	0.7524
##	2838	BRIGHT	24.6979	24.4434	23.4661	22.6515	22.3316	21.9968	0.9773	0.8146
##	2839	FAINT	27.3043	27.1899	26.8185	26.6607	26.4377	25.7528	0.3714	0.1578
##	2840	FAINT	28.4950	27.1986	26.7600	25.9924	25.5522	25.1783	0.4386	0.7676
##	2841	FAINT	27.3699	27.3807	26.5260	25.8739	25.6550	25.1654	0.8547	0.6521
##	2842	FAINT	28.9480	28.9041	27.7956	26.7306	25.5872	25.4390	1.1085	1.0650
##	2843	FAINT	27.5901	27.1211	26.9638	26.5729	26.4553	25.6854	0.1573	0.3909
##	2844	FAINT	27.0883	27.0945	26.5017	25.9776	25.2349	24.8393	0.5928	0.5241
##	2845	BRIGHT	24.5627	24.3980	24.2731	24.0062	23.5930	23.0931	0.1249	0.2669
##	2846	FAINT	27.1498	27.1493	26.3283	25.6435	25.0396	24.4140	0.8210	0.6848
##	2847	FAINT	29.1223	27.9805	27.0530	26.4387	25.7056	24.6197	0.9275	0.6143
##	2848	FAINT	29.1004	27.7395	28.1858	26.4805	25.7718	25.3847	-0.4463	1.7053
##	2849	FAINT	27.8268	28.1694	27.3603	26.9390	26.1512	25.7750	0.8091	0.4213
##	2850	FAINT	28.2284	28.3831	27.3003	26.7926	27.0394	28.0324	1.0828	0.5077
##	2851	FAINT	28.0978	27.0196	26.2619	25.3366	25.2067	24.7113	0.7577	0.9253
##	2852	FAINT	26.1898	25.9903	25.4964	25.4949	25.3658	25.2801	0.4939	0.0015
##	2853	FAINT	28.0199	27.0567	26.6547	26.3128	26.0268	26.2180	0.4020	0.3419
##	2854	BRIGHT	25.9291	24.6175	22.8433	21.5619	20.9501	20.5725	1.7742	1.2814
##	2855	FAINT	30.3300	27.7518	27.0487	26.9248	26.7905	26.1533	0.7031	0.1239
##	2856	BRIGHT	26.0717	25.3004	24.4026	23.6306	22.9870	22.7453	0.8978	0.7720
##	2857	FAINT	26.1460	26.0106	25.4165	25.2982	25.1575	24.7919	0.5941	0.1183
##	2858	FAINT	27.8609	27.8103	27.0185	26.6025	26.1281	26.4665	0.7918	0.4160
##	2859	BRIGHT	26.6686	26.0290	25.0596	24.8367	24.5377	25.1062	0.9694	0.2229
##	2860	BRIGHT	24.6999	24.3828	23.8755	23.2334	22.8399	22.7467	0.5073	0.6421
##	2861	FAINT	28.9016	29.8130	27.5012	25.5458	24.3702	23.6794	2.3118	1.9554
##	2862	FAINT	30.3273	26.7933	26.7493	26.0140	25.5864	24.8869	0.0440	0.7353
##	2863	FAINT	27.9092	26.9564	26.7731	26.1323	25.6498	25.1178	0.1833	0.6408

##	2864	BRIGHT	25.3647	25.3174	24.8833	24.3292	24.1084	24.0194	0.4341	0.5541
##	2865	BRIGHT	25.8321	24.9695	24.6159	24.3870	24.3311	24.3172	0.3536	0.2289
##	2866	FAINT	26.8378	26.7312	26.0782	25.9468	25.7107	25.8507	0.6530	0.1314
##	2867	BRIGHT	25.8331	25.3875	24.5735	24.2093	24.0701	23.7269	0.8140	0.3642
##	2868	FAINT	27.4361	26.7025	26.0114	25.4496	24.6231	24.3998	0.6911	0.5618
##	2869	FAINT	29.3296	28.0618	27.0074	26.3350	25.8566	25.8298	1.0544	0.6724
##	2870	FAINT	27.2449	26.3719	25.6424	25.5379	25.2003	26.3250	0.7295	0.1045
##	2871	BRIGHT	24.8330	24.4656	23.7323	23.0057	22.7642	22.5431	0.7333	0.7266
##	2872	FAINT	27.7447	28.1267	27.9425	26.8130	26.3089	27.5890	0.1842	1.1295
##	2873	BRIGHT	24.9851	24.1677	23.1192	22.2111	21.8799	21.5906	1.0485	0.9081
##	2874	FAINT	26.6578	26.4260	25.9390	25.4548	25.4503	26.4161	0.4870	0.4842
##	2875	FAINT	28.5921	26.7512	25.9671	25.5231	25.2496	25.2116	0.7841	0.4440
##	2876	FAINT	27.1014	27.4957	26.7573	26.7022	26.5990	25.9558	0.7384	0.0551
##	2877	FAINT	26.9913	27.2617	26.3894	26.3176	25.9268	26.0917	0.8723	0.0718
##	2878	FAINT	26.6307	26.6728	26.2662	25.7787	24.9782	24.9383	0.4066	0.4875
##	2879	FAINT	28.6517	29.0687	26.8806	25.9366	24.8710	24.5920	2.1881	0.9440
##	2880	FAINT	28.0135	26.6950	25.7577	25.2835	25.0859	24.7217	0.9373	0.4742
##	2881	FAINT	26.7984	26.8242	26.5014	26.3092	26.2626	26.7274	0.3228	0.1922
##	2882	BRIGHT	26.5721	26.0552	25.0712	24.2532	23.9719	23.7256	0.9840	0.8180
##	2883	BRIGHT	26.7182	25.8755	24.7773	24.4059	24.1938	24.1190	1.0982	0.3714
##	2884	BRIGHT	25.5580	25.0193	24.1474	23.3481	22.7225	22.4426	0.8719	0.7993
##	2885	FAINT	25.5373	25.6529	25.5418	25.5719	25.9126	25.6019	0.1111	-0.0301
##	2886	FAINT	27.0592	26.8942	26.7953	26.7844	27.2049	27.2470	0.0989	0.0109
##	2887	FAINT	27.4666	27.2403	26.3668	25.8454	25.4973	25.2260	0.8735	0.5214
##	2888	FAINT	28.5134	27.6828	26.8683	26.0707	25.0041	24.3453	0.8145	0.7976
##	2889	BRIGHT	28.0631	26.9929	25.7874	24.8917	24.6597	24.3239	1.2055	0.8957
##	2890	FAINT	27.3859	26.8305	25.7274	25.4306	25.3637	24.9892	1.1031	0.2968
##	2891	FAINT	28.5714	27.8581	27.3169	26.5909	26.9005	26.8589	0.5412	0.7260
##	2892	BRIGHT	26.2107	25.4247	24.0222	23.2537	23.0663	22.8345	1.4025	0.7685
##	2893	FAINT	28.2948	27.9427	28.1569	26.6204	26.4045	25.7647	-0.2142	1.5365
##	2894	BRIGHT	24.6931	24.2846	23.6960	22.9827	22.7494	22.5763	0.5886	0.7133
##	2895	FAINT	26.8831	26.8198	26.0952	25.3988	25.1466	25.3228	0.7246	0.6964
##	2896	BRIGHT	27.4106	26.1597	24.8312	24.4125	24.1661	24.0753	1.3285	0.4187
##	2897	FAINT	27.2860	26.5678	25.6594	25.3985	25.5468	24.8676	0.9084	0.2609
##	2898	BRIGHT	25.2152	24.9540	24.4936	24.2049	24.2324	24.1306	0.4604	0.2887
##	2899	BRIGHT	27.0706	26.6061	25.6218	24.6209	24.2802	24.1940	0.9843	1.0009
##	2900	BRIGHT	26.6239	25.5140	24.1649	23.2125	22.9397	22.6881	1.3491	0.9524
##	2901	FAINT	27.9175	27.6482	26.6205	26.1602	25.4521	25.5942	1.0277	0.4603
##	2902	FAINT	27.7954	28.7783	27.6151	26.9837	26.9647	27.1056	1.1632	0.6314
##	2903	FAINT	27.0674	26.2259	25.4320	25.2813	25.0658	24.9792	0.7939	0.1507
##	2904	FAINT	27.5664	27.2638	26.8347	26.0253	25.5688	26.0347	0.4291	0.8094
##	2905	FAINT	26.3771	26.9241	26.4463	26.2840	26.3835	26.2366	0.4778	0.1623
##	2906	FAINT	26.7166	26.5667	25.9993	25.8639	25.5747	26.2386	0.5674	0.1354
##	2907	FAINT	25.5439	25.3275	25.2335	25.0258	24.8420	24.1304	0.0940	0.2077
##	2908	FAINT	28.0653	27.4959	27.0773	26.6194	26.2587	26.1671	0.4186	0.4579
##	2909	BRIGHT	25.4885	25.0470	24.0216	23.1033	22.4830	22.2906	1.0254	0.9183
##	2910	FAINT	29.8062	27.3050	26.6725	26.3628	26.2496	26.2297	0.6325	0.3097
##	2911	FAINT	27.3008	27.4275	27.0166	26.8373	26.3166	26.0248	0.4109	0.1793
##	2912	BRIGHT	23.6617	21.9761	20.5460	19.9459	19.5544	19.2385	1.4301	0.6001
##	2913	BRIGHT	25.3458	24.3837	23.1362	22.6046	22.2977	22.0734	1.2475	0.5316
##	2914	BRIGHT	26.8427	25.6178	23.9877	22.7887	22.3239	21.9783	1.6301	1.1990
##	2915	FAINT	27.9134	27.1626	26.8908	26.9003	26.7971	25.6205	0.2718	-0.0095
##	2916	FAINT	28.4880	28.4481	27.6033	26.3976	25.9219	26.2564	0.8448	1.2057
##	2917	FAINT	29.3109	29.6550	27.4574	26.4861	25.9668	26.6473	2.1976	0.9713
##	2918	BRIGHT	23.8815	23.5389	22.8161	22.4476	22.2370	22.0885	0.7228	0.3685
##	2919	FAINT	28.6155	28.0383	27.0938	26.6550	26.0374	26.6211	0.9445	0.4388
##	2920	FAINT	26.7309	27.0830	26.1150	25.9105	26.1130	26.3818	0.9680	0.2045
##	2921	BRIGHT	24.5938	23.5660	22.7766	22.4932	22.2082	22.2056	0.7894	0.2834
##	2922	FAINT	26.9839	26.5955	25.7861	25.0190	24.4962	24.4135	0.8094	0.7671
##	2923	FAINT	26.1475	26.1187	25.5682	25.1572	24.4140	24.2783	0.5505	0.4110
##	2924	BRIGHT	27.0814	25.9668	24.9229	24.1161	23.7623	23.5669	1.0439	0.8068
##	2925	BRIGHT	26.0048	23.8766	22.2674	21.4863	21.1248	20.9003	1.6092	0.7811
##	2926	BRIGHT	24.3846	23.5908	23.0967	22.8132	22.8096	22.7190	0.4941	0.2835
##	2927	FAINT	28.4991	28.0571	27.9323	26.8036	25.8053	25.1833	0.1248	1.1287
##	2928	FAINT	26.2105	25.8090	25.3056	25.1081	24.9578	24.8777	0.5034	0.1975
##	2929	BRIGHT	24.3049	23.9243	23.1918	22.7060	22.5442	22.3647	0.7325	0.4858
##	2930	FAINT	29.6269	28.1368	28.1133	26.7662	27.0660	25.8154	0.0235	1.3471
##	2931	FAINT	28.1327	27.3230	26.6044	25.9022	25.7975	26.6018	0.7186	0.7022
##	2932	BRIGHT	24.5488	23.8599	23.0141	22.5460	22.3796	22.2641	0.8458	0.4681
##	2933	BRIGHT	25.3941	23.2033	21.5361	20.3103	19.8447	19.4776	1.6672	1.2258
##	2934	FAINT	27.2584	27.0767	26.9237	26.4100	26.8140	26.5610	0.1530	0.5137
##	2935	BRIGHT	26.3682	25.2028	24.3649	24.0352	23.7551	23.7943	0.8379	0.3297
##	2936	BRIGHT	23.0623	22.9613	22.7760	22.4567	22.0997	21.9353	0.1853	0.3193
##	2937	FAINT	27.5298	27.5730	27.7121	26.6920	26.9036	28.0316	-0.1391	1.0201
##	2938	BRIGHT	25.6278	25.3029	24.6843	24.6140	24.3535	24.5751	0.6186	0.0703
##	2939	BRIGHT	25.0992	24.6568	23.8087	23.2605	23.1330	22.9514	0.8481	0.5482
##	2940	FAINT	28.1156	27.2857	26.4861	26.0997	26.1622	26.0078	0.7996	0.3864
##	2941	FAINT	29.1288	27.3324	26.5214	26.0380	25.9361	25.6364	0.8110	0.4834
##	2942	BRIGHT	26.5391	25.9172	25.1102	24.4907	23.7871	23.1567	0.8070	0.6195

##	2943	BRIGHT	25.6181	24.9257	23.7244	23.2389	22.9863	22.6815	1.2013	0.4855
##	2944	FAINT	27.1407	26.5420	26.1690	25.9838	25.2950	25.4751	0.3730	0.1852
##	2945	BRIGHT	26.2328	25.4522	24.7122	24.5102	24.3188	24.2633	0.7400	0.2020
##	2946	FAINT	30.9673	27.8114	27.8767	26.8643	26.4542	25.0858	-0.0653	1.0124
##	2947	FAINT	27.8235	26.9885	25.8282	25.5672	25.2127	25.3637	1.1603	0.2610
##	2948	FAINT	29.3979	27.1426	26.6127	25.8425	25.8802	26.6620	0.5299	0.7702
##	2949	BRIGHT	25.4585	24.7845	23.7674	23.0396	22.3579	22.0367	1.0171	0.7278
##	2950	FAINT	27.8189	27.6093	27.0513	25.8726	25.1908	24.9482	0.5580	1.1787
##	2951	FAINT	27.0509	26.6748	26.4974	26.1629	25.9341	26.1007	0.1774	0.3345
##	2952	FAINT	27.2530	28.7512	27.1662	26.5652	26.2653	25.6626	1.5850	0.6010
##	2953	BRIGHT	26.9690	26.2538	25.5720	24.9647	24.3297	23.7641	0.6818	0.6073
##	2954	FAINT	27.4289	26.3899	26.7004	26.5916	26.2890	26.4280	-0.3105	0.1088
##	2955	FAINT	28.0736	27.9658	28.0356	26.7614	26.2814	25.3694	-0.0698	1.2742
##	2956	BRIGHT	23.7008	23.6887	23.4065	22.7699	22.5281	22.4671	0.2822	0.6366
##	2957	FAINT	28.0374	27.1101	27.1119	26.5516	26.2838	28.2608	-0.0018	0.5603
##	2958	FAINT	28.5660	28.4255	27.2485	26.5904	26.5152	26.5157	1.1770	0.6581
##	2959	FAINT	26.9811	27.0417	26.8964	26.1364	25.7702	25.0075	0.1453	0.7600
##	2960	FAINT	26.3257	26.6521	26.5249	26.2657	25.3833	25.2899	0.1272	0.2592
##	2961	BRIGHT	24.3911	22.7170	21.2758	20.7507	20.4476	20.2774	1.4412	0.5251
##	2962	BRIGHT	25.9065	23.8038	22.1832	21.1457	20.7312	20.4234	1.6206	1.0375
##	2963	FAINT	27.1571	26.4274	25.9511	25.3625	24.7871	24.0830	0.4763	0.5886
##	2964	BRIGHT	19.8458	18.7869	18.2210	17.8609	17.6711	17.4633	0.5659	0.3601
##	2965	BRIGHT	26.3670	23.9112	22.3122	21.2873	20.8894	20.6027	1.5990	1.0249
##	2966	FAINT	27.2138	26.3846	26.0220	25.5838	25.6123	24.7601	0.3626	0.4382
##	2967	FAINT	28.1143	27.5143	26.7841	26.1483	25.4326	24.7349	0.7302	0.6358
##	2968	FAINT	28.6219	28.9534	28.0604	26.6184	26.8399	25.9533	0.8930	1.4420
##	2969	FAINT	28.1017	28.1097	27.2546	26.5438	26.1530	27.5110	0.8551	0.7108
##	2970	BRIGHT	25.6159	25.6488	25.2357	24.7254	24.2145	24.0570	0.4131	0.5103
##	2971	FAINT	28.7134	28.0120	27.5423	26.5782	26.8562	26.8608	0.4697	0.9641
##	2972	BRIGHT	25.7392	24.9936	24.4347	24.1679	24.0891	23.9074	0.5589	0.2668
##	2973	BRIGHT	24.2316	23.8189	22.9850	22.0053	21.5819	21.3206	0.8339	0.9797
##	2974	FAINT	29.7762	28.6863	27.3069	26.4022	25.9023	25.5473	1.3794	0.9047
##	2975	FAINT	28.5151	27.6470	27.1571	25.3705	24.6967	23.5925	0.4899	1.7866
##	2976	BRIGHT	26.2114	26.0790	25.4060	24.8151	24.5984	24.4704	0.6730	0.5909
##	2977	FAINT	28.6184	27.1985	26.0254	25.5829	25.2622	25.0003	1.1731	0.4425
##	2978	FAINT	29.2662	28.3182	27.0554	26.5822	26.3895	25.3206	1.2628	0.4732
##	2979	FAINT	26.5600	26.7561	26.9684	26.7757	26.4050	25.9210	-0.2123	0.1927
##	2980	FAINT	27.6510	27.7845	26.3513	26.2095	25.8869	25.8811	1.4332	0.1418
##	2981	FAINT	27.1647	27.0653	26.6382	25.9568	25.9094	24.9779	0.4271	0.6814
##	2982	FAINT	29.1052	28.1835	27.1281	26.6736	26.5491	29.1957	1.0554	0.4545
##	2983	FAINT	28.0386	27.6868	27.0882	26.5509	26.2871	27.2212	0.5986	0.5373
##	2984	BRIGHT	24.6180	22.8542	21.2828	20.3443	19.9662	19.6341	1.5714	0.9385
##	2985	BRIGHT	29.4811	28.2158	26.7076	24.5433	23.7002	22.7491	1.5082	2.1643
##	2986	FAINT	26.7806	26.7835	26.3981	26.3248	26.2179	26.3471	0.3854	0.0733
##	2987	FAINT	26.4131	26.7827	26.5871	26.5974	27.0644	26.2996	0.1956	-0.0103
##	2988	FAINT	28.5672	27.5510	26.4304	25.6801	24.6820	24.1934	1.1206	0.7503
##	2989	FAINT	26.8535	27.6353	26.6911	26.6704	26.0990	26.6299	0.9442	0.0207
##	2990	BRIGHT	26.7620	26.0622	24.5644	23.5108	22.6200	21.9410	1.4978	1.0536
##	2991	BRIGHT	23.6843	23.0573	22.2558	22.1209	21.8599	21.9625	0.8015	0.1349
##	2992	BRIGHT	27.2907	26.5675	25.5295	24.9079	24.7908	24.4449	1.0380	0.6216
##	2993	BRIGHT	26.1994	24.8521	23.1845	21.9690	21.5047	21.1555	1.6676	1.2155
##	2994	FAINT	26.7186	26.8438	26.6212	26.1369	26.0054	25.5657	0.2226	0.4843
##	2995	BRIGHT	27.1834	26.6964	25.8127	24.9191	24.3388	24.2269	0.8837	0.8936
##	2996	FAINT	27.9972	27.7245	26.8295	26.1747	25.6618	25.5148	0.8950	0.6548
##	2997	FAINT	27.6025	26.6882	25.8155	25.4993	25.4308	25.1754	0.8727	0.3162
##	2998	FAINT	27.0707	26.3269	25.6373	25.4521	25.3741	25.7623	0.6896	0.1852
##	2999	BRIGHT	25.4006	24.8206	23.8971	23.5381	23.3307	23.1373	0.9235	0.3590
##	3000	FAINT	29.4503	26.7704	25.8985	25.7404	25.6257	26.4624	0.8719	0.1581
##	3001	FAINT	25.8173	26.0102	26.0302	26.1394	26.2382	27.0720	-0.0200	-0.1092
##	3002	BRIGHT	26.0706	25.8254	25.4551	24.8715	24.5510	23.6750	0.3703	0.5836
##	3003	BRIGHT	23.7971	22.7224	21.5643	21.0468	20.7202	20.4708	1.1581	0.5175
##	3004	FAINT	26.4809	26.5026	26.0911	25.7623	25.7590	25.2320	0.4115	0.3288
##	3005	FAINT	27.0656	27.1748	26.8059	26.4021	26.5427	26.8845	0.3689	0.4038
##	3006	BRIGHT	24.9287	24.6638	23.9785	23.1932	22.9529	22.6978	0.6853	0.7853
##	3007	BRIGHT	26.2886	25.4552	24.5221	24.3013	24.1083	24.3666	0.9331	0.2208
##	3008	FAINT	28.6066	27.8051	27.1741	26.7275	27.0566	26.6810	0.6310	0.4466
##	3009	BRIGHT	25.7709	24.9919	24.0822	23.8200	23.6528	23.4759	0.9097	0.2622
##	3010	FAINT	30.6041	30.1339	27.8161	26.8596	27.6003	25.8834	2.3178	0.9565
##	3011	FAINT	28.5577	28.8819	27.8295	26.9787	26.2380	25.6266	1.0524	0.8508
##	3012	BRIGHT	26.2018	25.9137	25.3318	24.5921	24.0036	23.6889	0.5819	0.7397
##	3013	BRIGHT	25.9458	24.9563	24.5492	24.3400	24.3192	24.2006	0.4071	0.2092
##	3014	BRIGHT	24.4039	23.1949	22.2035	21.9961	21.6706	21.7262	0.9914	0.2074
##	3015	FAINT	30.9512	28.9014	27.1697	25.9535	25.2746	25.3937	1.7317	1.2162
##	3016	BRIGHT	25.8318	25.1024	24.1159	23.1459	22.7701	22.5834	0.9865	0.9700
##	3017	BRIGHT	26.1282	25.7626	25.4680	24.9477	24.4738	23.9149	0.2946	0.5203
##	3018	FAINT	28.4534	27.3894	26.6441	25.9517	25.3987	25.2054	0.7453	0.6924
##	3019	BRIGHT	25.9871	25.3939	24.5104	24.2040	24.0227	23.8170	0.8835	0.3064
##	3020	FAINT	26.9693	26.3294	25.8448	25.8054	25.5919	25.6610	0.4846	0.0394
##	3021	FAINT	27.5225	26.9084	26.0743	25.3480	24.7796	24.6168	0.8341	0.7263

##	3022	FAINT	29.0541	27.6092	26.8997	26.2972	26.4186	26.9778	0.7095	0.6025
##	3023	FAINT	29.1734	27.7388	26.9146	26.1323	25.7351	27.2522	0.8242	0.7823
##	3024	BRIGHT	25.6171	25.3251	24.8519	24.1799	23.8308	23.7327	0.4732	0.6720
##	3025	FAINT	26.3706	26.7039	26.4969	26.1027	26.2587	25.6953	0.2070	0.3942
##	3026	FAINT	28.6765	27.2436	26.4247	25.6349	24.8628	24.1116	0.8189	0.7898
##	3027	BRIGHT	25.5798	24.8289	24.1866	23.9776	23.8069	23.7617	0.6423	0.2090
##	3028	FAINT	25.6005	25.5100	25.0080	25.0539	24.8719	24.7546	0.5020	-0.0459
##	3029	BRIGHT	25.1965	24.4608	23.8894	23.6752	23.5867	23.4367	0.5714	0.2142
##	3030	BRIGHT	28.2095	25.9090	24.6114	24.1611	23.8406	23.7339	1.2976	0.4503
##	3031	FAINT	26.5936	26.9320	26.7007	26.6243	26.3530	26.2728	0.2313	0.0764
##	3032	FAINT	28.1551	30.9339	28.5643	26.9692	26.1116	27.8750	2.3696	1.5951
##	3033	FAINT	28.3681	26.9745	26.4189	26.1700	25.8138	26.3612	0.5556	0.2489
##	3034	FAINT	27.3183	27.1104	26.6980	26.4714	25.8858	25.7344	0.4124	0.2266
##	3035	FAINT	30.2478	27.3762	26.8080	25.9506	25.9828	25.4558	0.5682	0.8574
##	3036	FAINT	25.9798	25.5270	25.2223	25.0753	25.0057	25.3964	0.3047	0.1470
##	3037	FAINT	28.0985	28.7776	27.9446	26.4923	25.6996	25.0133	0.8330	1.4523
##	3038	FAINT	28.6619	28.4525	26.6520	25.5218	24.6727	23.9029	1.8005	1.1302
##	3039	BRIGHT	25.5548	24.8639	23.8300	23.2599	23.0921	22.9141	1.0339	0.5701
##	3040	FAINT	27.3227	26.7298	25.9756	25.4119	24.6000	24.2371	0.7542	0.5637
##	3041	FAINT	27.9412	28.3202	27.5744	26.6879	27.0395	26.6539	0.7458	0.8865
##	3042	FAINT	28.3021	30.7862	27.6374	26.7959	26.7531	27.7082	3.1488	0.8415
##	3043	FAINT	26.8722	26.6085	26.3235	26.0180	25.2934	25.6734	0.2850	0.3055
##	3044	FAINT	26.6962	26.5262	25.8694	25.7347	25.7367	25.5612	0.6568	0.1347
##	3045	FAINT	28.3060	28.4359	27.4487	26.8480	27.0535	26.7782	0.9872	0.6007
##	3046	FAINT	28.4955	27.8548	27.1732	26.8723	26.9344	26.6228	0.6816	0.3009
##	3047	FAINT	28.3587	28.6892	26.9442	26.7144	26.6545	26.4765	1.7450	0.2298
##	3048	BRIGHT	24.5774	24.1318	23.0751	22.0938	21.4074	21.1148	1.0567	0.9813
##	3049	BRIGHT	26.7300	26.4276	25.5846	24.8132	24.6015	24.6563	0.8430	0.7714
##	3050	BRIGHT	26.3512	26.0789	25.3494	24.5563	24.1204	23.9557	0.7295	0.7931
##	3051	BRIGHT	25.8442	25.4038	24.9101	24.4245	23.7418	23.3630	0.4937	0.4856
##	3052	FAINT	27.2473	28.2751	27.3051	26.4056	25.9152	26.2695	0.9700	0.8995
##	3053	BRIGHT	24.0716	23.3339	23.0068	22.8424	22.8188	22.8080	0.3271	0.1644
##	3054	BRIGHT	25.8967	25.5780	24.9715	24.7922	24.5615	24.8062	0.6065	0.1793
##	3055	BRIGHT	23.9256	23.3830	23.1709	22.8639	22.8450	22.6654	0.2121	0.3070
##	3056	FAINT	29.2748	27.7870	27.3058	26.4680	26.0942	25.7623	0.4812	0.8378
##	3057	BRIGHT	27.5438	26.0697	24.8575	24.1037	23.9540	23.7594	1.2122	0.7538
##	3058	BRIGHT	26.4114	25.5404	24.5966	23.8462	23.1849	22.9128	0.9438	0.7504
##	3059	BRIGHT	28.3055	28.4737	25.8661	24.3231	23.5432	22.6092	2.6076	1.5430
##	3060	FAINT	26.4389	25.9686	25.7476	25.3459	25.0189	24.3387	0.2210	0.4017
##	3061	FAINT	28.9433	27.0660	26.5752	26.3598	26.2998	25.5348	0.4908	0.2154
##	3062	BRIGHT	24.7436	24.4179	23.6366	22.9506	22.1960	21.7895	0.7813	0.6860
##	3063	FAINT	26.4113	26.3661	25.8416	25.7541	25.5747	26.2142	0.5245	0.0875
##	3064	FAINT	28.7293	27.6017	26.7520	26.4669	26.3756	26.4750	0.8497	0.2851
##	3065	FAINT	28.5450	27.9655	26.8244	25.6483	25.1538	24.7382	1.1411	1.1761
##	3066	BRIGHT	24.9420	24.9580	24.5381	23.8805	23.6297	23.6051	0.4199	0.6576
##	3067	FAINT	30.2705	28.5146	27.6209	26.8228	26.6135	26.5670	0.8937	0.7981
##	3068	FAINT	26.6723	26.3557	26.1529	25.8643	25.5494	24.9973	0.2028	0.2886
##	3069	FAINT	26.0911	26.2467	26.0663	26.2734	26.0815	25.7761	0.1804	-0.2071
##	3070	FAINT	29.4943	27.0599	26.0891	25.9621	25.9075	26.0332	0.9708	0.1270
##	3071	BRIGHT	29.1540	26.6499	25.3318	24.9177	24.4293	24.5628	1.3181	0.4141
##	3072	FAINT	27.0650	27.6606	26.7862	26.5361	26.3808	25.7032	0.8744	0.2501
##	3073	BRIGHT	25.4349	24.6455	24.3247	24.0915	24.0585	23.9465	0.3208	0.2332
##	3074	FAINT	28.0904	27.9112	27.5693	26.7928	26.9448	25.4769	0.3419	0.7765
##	3075	BRIGHT	25.6684	25.2383	25.1027	24.8831	24.7981	24.2196	0.1356	0.2196
##	3076	BRIGHT	23.8450	22.9522	21.8759	21.4170	21.2164	20.8960	1.0763	0.4589
##	3077	BRIGHT	25.7488	25.6063	25.4118	24.9344	24.6394	23.8704	0.1945	0.4774
##	3078	BRIGHT	24.0466	23.5915	22.7899	21.9738	21.6947	21.4691	0.8016	0.8161
##	3079	BRIGHT	25.9781	25.1104	24.3961	24.1330	23.9611	23.8210	0.7143	0.2631
##	3080	FAINT	27.9905	27.8259	26.9376	26.6044	25.7818	25.2701	0.8883	0.3332
##	3081	FAINT	27.0624	26.7280	25.9169	25.3520	25.0627	25.2505	0.8111	0.5649
##	3082	FAINT	29.5987	27.9555	27.1107	26.8392	26.4097	25.7265	0.8448	0.2715
##	3083	FAINT	27.7569	27.3178	27.0231	26.3968	25.6793	24.7741	0.2947	0.6263
##	3084	FAINT	28.5203	27.6498	26.7839	26.4986	26.5289	25.8652	0.8659	0.2853
##	3085	FAINT	28.0594	27.9012	27.4977	26.8085	27.1320	25.5914	0.4035	0.6892
##	3086	BRIGHT	24.9853	25.1070	24.8125	24.3714	23.9326	23.3401	0.2945	0.4411
##	3087	FAINT	25.3117	25.2698	25.3035	25.2887	25.5489	25.7188	-0.0337	0.0148
##	3088	FAINT	27.5223	27.3682	26.3657	25.1188	24.6256	24.2407	1.0025	1.2469
##	3089	FAINT	29.1082	29.5354	27.2108	26.4139	26.5321	25.7385	2.3246	0.7969
##	3090	BRIGHT	22.9496	22.9327	22.8308	22.4143	22.2219	22.1889	0.1019	0.4165
##	3091	FAINT	26.9262	26.8696	26.3133	25.5596	25.6730	25.6368	0.5563	0.7537
##	3092	FAINT	27.0550	26.3771	26.3124	26.2428	26.0865	25.2552	0.0647	0.0696
##	3093	FAINT	28.0550	28.5737	27.2921	26.0129	25.2338	24.4376	1.2816	1.2792
##	3094	BRIGHT	23.3540	21.6666	20.2938	19.7555	19.4453	19.1956	1.3728	0.5383
##	3095	FAINT	27.1575	26.7713	26.0289	26.0087	25.6189	25.9202	0.7424	0.0202
##	3096	FAINT	26.0964	26.1120	25.5720	25.3352	25.2018	25.2351	0.5400	0.2368
##	3097	BRIGHT	27.2453	26.3089	25.4804	24.8910	24.7229	24.5677	0.8285	0.5894
##	3098	FAINT	26.2633	26.1111	26.1292	25.9113	25.5216	25.0372	-0.0181	0.2179
##	3099	FAINT	27.8428	26.7729	26.1230	25.6315	25.5822	25.6814	0.6499	0.4915
##	3100	BRIGHT	28.9490	27.2039	24.7694	23.7041	22.7441	22.3013	2.4345	1.0653

##	3101	BRIGHT	27.6738	27.3972	25.1020	24.0811	23.0948	22.5319	2.2952	1.0209
##	3102	FAINT	26.3676	26.3031	26.2095	26.1635	26.2261	25.5491	0.0936	0.0460
##	3103	BRIGHT	27.0047	26.2214	25.4496	24.6344	24.3220	24.0880	0.7718	0.8152
##	3104	FAINT	27.3082	26.5446	25.4651	25.0385	24.8340	25.1218	1.0795	0.4266
##	3105	FAINT	29.3168	28.7489	27.6939	26.9302	26.9561	26.6349	1.0550	0.7637
##	3106	FAINT	26.9606	26.8174	26.2017	25.5397	24.7277	24.2890	0.6157	0.6620
##	3107	FAINT	27.2363	27.1599	27.3232	26.7700	27.2016	27.3942	-0.1633	0.5532
##	3108	FAINT	28.8503	29.2930	27.6009	26.7440	27.3965	26.1585	1.6921	0.8569
##	3109	FAINT	27.0334	26.3247	26.0445	25.3259	24.9877	24.9143	0.2802	0.7186
##	3110	BRIGHT	29.2890	29.2789	26.3887	24.9543	24.1644	23.2370	2.8902	1.4344
##	3111	FAINT	29.5505	27.2303	26.3040	25.5992	25.0339	24.9797	0.9263	0.7048
##	3112	FAINT	34.3795	27.5954	26.8254	26.2120	26.4935	25.3748	0.7700	0.6134
##	3113	FAINT	27.0180	26.5971	25.8938	25.4720	25.2244	25.4250	0.7033	0.4218
##	3114	FAINT	27.6459	27.6380	27.3148	26.7843	26.3688	26.2820	0.3232	0.5305
##	3115	BRIGHT	22.5514	20.7385	19.2514	18.6536	18.3421	18.0486	1.4871	0.5978
##	3116	FAINT	26.8718	26.6547	26.0535	25.4247	24.7753	24.1572	0.6012	0.6288
##	3117	FAINT	26.4753	26.0029	25.6787	25.0053	24.3934	24.6605	0.3242	0.6734
##	3118	BRIGHT	25.3281	24.3883	23.6251	23.3522	23.0264	22.9753	0.7632	0.2729
##	3119	FAINT	28.9500	27.2079	26.3241	25.7537	25.2988	25.2307	0.8838	0.5704
##	3120	BRIGHT	24.4567	24.2549	24.2332	24.1611	24.2799	24.3604	0.0217	0.0721
##	3121	FAINT	28.0809	27.6356	26.9184	25.8138	25.4963	25.2225	0.7172	1.1046
##	3122	FAINT	27.9613	28.6965	26.8206	25.7429	24.6860	24.2962	1.8759	1.0777
##	3123	FAINT	28.1305	28.2089	26.2359	25.9011	25.6119	25.3619	1.9730	0.3348
##	3124	FAINT	30.4128	27.6712	26.9095	26.4807	25.7510	25.1526	0.7617	0.4288
##	3125	FAINT	28.3386	27.5479	26.8435	26.5384	26.3751	26.6540	0.7044	0.3051
##	3126	FAINT	27.6427	26.8955	26.1721	25.3874	25.0119	24.6313	0.7234	0.7847
##	3127	FAINT	27.8480	28.2467	27.3907	26.6321	26.2097	25.4944	0.8560	0.7586
##	3128	FAINT	27.9162	27.3051	27.4593	26.5354	26.7988	25.8161	-0.1542	0.9239
##	3129	FAINT	25.9450	26.2183	26.2129	26.0554	26.6586	26.6111	0.0054	0.1575
##	3130	FAINT	26.6946	26.5964	26.3221	25.8571	25.8691	25.7926	0.2743	0.4650
##	3131	FAINT	28.1629	27.9479	27.6941	26.5949	27.0132	26.5807	0.2538	1.0992
##	3132	FAINT	28.1775	28.2756	27.4363	26.5435	25.8600	25.1094	0.8393	0.8928
##	3133	FAINT	27.3508	26.6804	26.1549	25.3595	24.9671	24.2442	0.5255	0.7954
##	3134	FAINT	29.9566	28.0834	26.8143	26.1652	25.8822	25.8172	1.2691	0.6491
##	3135	FAINT	27.3600	27.3987	27.4878	26.9179	26.2434	26.6828	-0.0891	0.5699
##	3136	FAINT	25.6074	25.6375	25.6488	25.5435	25.5014	25.5016	-0.0113	0.1053
##	3137	FAINT	27.3773	27.4127	26.9473	26.3952	25.6489	25.2084	0.4654	0.5521
##	3138	BRIGHT	25.7380	25.0720	24.2371	23.3489	22.7636	22.5223	0.8349	0.8882
##	3139	FAINT	28.5239	28.2291	26.5781	25.9639	25.2048	24.6772	1.6510	0.6142
##	3140	BRIGHT	23.5284	22.6124	21.7641	21.5069	21.2117	21.1723	0.8483	0.2572
##	3141	FAINT	26.4429	26.6821	26.2697	25.5772	25.2110	25.0157	0.4124	0.6925
##	3142	BRIGHT	26.7169	25.3254	24.4014	24.0251	23.7870	23.5733	0.9240	0.3763
##	3143	FAINT	29.2634	28.2446	27.2371	25.8692	25.3365	24.4001	1.0075	1.3679
##	3144	FAINT	28.8412	28.2765	27.6501	26.9005	26.8678	26.3205	0.6264	0.7496
##	3145	BRIGHT	23.6656	21.6951	20.0808	19.4560	19.1093	18.8847	1.6143	0.6248
##	3146	FAINT	27.8287	29.7786	28.0863	26.8620	26.7022	27.0884	1.6923	1.2243
##	3147	FAINT	28.1513	28.1033	27.2404	26.3985	26.1376	26.0302	0.8629	0.8419
##	3148	FAINT	26.6643	26.8070	26.6198	26.3774	26.0013	27.5994	0.1872	0.2424
##	3149	FAINT	29.3649	27.9924	27.1550	26.5393	25.6885	25.3519	0.8374	0.6157
##	3150	FAINT	27.0136	26.8962	26.9213	26.2897	25.6316	25.7670	-0.0251	0.6316
##	3151	BRIGHT	24.3154	23.6244	22.9298	22.7337	22.5191	22.4710	0.6946	0.1961
##	3152	BRIGHT	26.4371	25.7323	25.2543	24.9284	24.5804	24.2853	0.4780	0.3259
##	3153	FAINT	27.8238	27.2523	26.7473	26.5255	26.2564	26.4980	0.5050	0.2218
##	3154	BRIGHT	23.9657	23.4160	22.4730	21.9450	21.7108	21.4156	0.9430	0.5280
##	3155	BRIGHT	22.4552	21.9362	21.1547	20.9966	20.8080	20.8222	0.7815	0.1581
##	3156	FAINT	27.1225	26.2074	25.4771	25.1987	25.1740	25.2336	0.7303	0.2784
##	3157	FAINT	26.8833	27.5671	27.0015	26.5851	26.2341	26.5479	0.5656	0.4164
##	3158	BRIGHT	22.0415	21.3248	20.8417	20.5813	20.4310	20.3325	0.4831	0.2604
##	3159	BRIGHT	26.8743	25.3178	23.2953	22.0300	21.2551	20.8645	2.0225	1.2653
##	3160	BRIGHT	26.8229	26.5136	25.6709	24.7226	24.4346	24.2523	0.8427	0.9483
##	3161	FAINT	30.1125	27.7766	27.2575	26.5886	26.1435	26.1919	0.5191	0.6689
##	3162	FAINT	27.2445	27.4762	26.9499	26.8478	27.3107	26.3974	0.5263	0.1021
##	3163	FAINT	27.2592	27.2852	26.6564	26.3452	25.9330	26.5133	0.6288	0.3112
##	3164	BRIGHT	26.1940	25.6423	24.9776	24.7904	24.5831	24.3338	0.6647	0.1872
##	3165	FAINT	28.6544	27.4344	26.4709	26.5483	26.1205	26.4467	0.9635	-0.0774
##	3166	FAINT	28.3381	27.0929	26.9247	26.6828	26.5092	26.9017	0.1682	0.2419
##	3167	BRIGHT	31.9366	26.4426	24.4482	23.2865	22.4584	22.1004	1.9944	1.1617
##	3168	FAINT	26.8389	26.8418	26.7143	26.1007	25.7017	24.9652	0.1275	0.6136
##	3169	FAINT	27.9921	27.6310	26.7184	26.1449	25.8312	25.8843	0.9126	0.5735
##	3170	BRIGHT	25.4207	25.5434	25.2384	24.8437	24.8507	24.6410	0.3050	0.3947
##	3171	FAINT	30.5501	28.3075	27.6480	26.8709	26.9535	26.2147	0.6595	0.7771
##	3172	FAINT	29.2238	28.9814	27.7398	26.7232	26.6809	25.7001	1.2416	1.0166
##	3173	FAINT	29.0616	27.7515	26.8089	26.6770	26.6665	26.0159	0.9426	0.1319
##	3174	BRIGHT	25.6686	25.5701	25.1581	24.4554	24.1346	24.2044	0.4120	0.7027
##	3175	FAINT	27.0142	27.2612	26.2245	25.9505	26.1608	25.4503	1.0367	0.2740
##	3176	BRIGHT	26.4044	25.3658	23.3676	22.1867	21.4090	21.0816	1.9982	1.1809
##	3177	BRIGHT	26.1490	25.0347	23.5186	22.4864	22.1334	21.8034	1.5161	1.0322
##	3178	BRIGHT	24.7741	24.7992	24.9364	24.9169	25.0216	25.1960	-0.1372	0.0195
##	3179	FAINT	29.8728	28.2667	26.3691	25.3449	25.0615	24.5913	1.8976	1.0242

##	3180	BRIGHT	25.2907	24.7461	24.0134	23.1150	22.8457	22.6261	0.7327	0.8984
##	3181	FAINT	28.8521	27.4686	27.0343	26.8575	25.8877	25.5852	0.4343	0.1768
##	3182	FAINT	27.7291	27.1690	26.5096	25.7602	25.4875	25.0939	0.6594	0.7494
##	3183	FAINT	30.5178	28.4865	29.0100	26.9413	25.9665	25.2219	-0.5235	2.0687
##	3184	FAINT	30.1068	27.9629	27.4637	26.5388	26.3098	26.3412	0.4992	0.9249
##	3185	FAINT	28.0418	27.7469	27.0670	26.3257	25.4639	24.8979	0.6799	0.7413
##	3186	FAINT	27.8895	27.2412	26.0668	25.7274	25.6455	25.2305	1.1744	0.3394
##	3187	FAINT	31.1093	28.2358	27.6948	26.5442	25.4909	25.1409	0.5410	1.1506
##	3188	FAINT	27.3194	27.1907	26.3999	25.6337	25.2355	25.1459	0.7908	0.7662
##	3189	FAINT	29.8189	27.7097	26.5140	26.5073	26.1425	25.8562	1.1957	0.0067
##	3190	FAINT	26.5811	26.8447	26.8157	26.8085	26.5003	27.1601	0.0290	0.0072
##	3191	FAINT	28.4564	27.5425	27.2579	26.5249	26.0584	26.5088	0.2846	0.7330
##	3192	FAINT	29.1763	28.0089	27.1553	26.3260	26.4038	26.2591	0.8536	0.8293
##	3193	BRIGHT	26.1086	25.4938	24.8228	24.3873	24.2503	24.0862	0.6710	0.4355
##	3194	FAINT	29.4745	28.0216	26.5400	25.8155	25.3378	24.9208	1.4816	0.7245
##	3195	FAINT	27.6528	26.7916	26.7250	26.7101	25.8776	25.5289	0.0666	0.0149
##	3196	BRIGHT	26.6874	26.1407	25.5313	24.9356	24.2645	24.0658	0.6094	0.5957
##	3197	BRIGHT	24.5233	23.9827	22.8877	22.0868	21.7666	21.4778	1.0950	0.8009
##	3198	FAINT	29.5668	28.0474	27.2295	26.8480	25.8451	25.2915	0.8179	0.3815
##	3199	BRIGHT	26.1233	24.9629	24.0279	23.6794	23.3698	23.2420	0.9350	0.3485
##	3200	BRIGHT	25.0650	24.9246	24.6619	24.2754	23.5855	23.2237	0.2627	0.3865
##	3201	FAINT	27.6034	27.7611	27.5648	26.8773	26.8629	26.4088	0.1963	0.6875
##	3202	FAINT	26.9899	27.3478	26.6107	26.3974	25.9251	26.0754	0.7371	0.2133
##	3203	FAINT	26.2388	25.7747	25.5348	25.0470	24.6495	23.9153	0.2399	0.4878
##	3204	FAINT	28.2580	27.2119	26.9675	26.9018	26.4248	25.7902	0.2444	0.0657
##	3205	BRIGHT	25.7343	24.9128	24.4461	24.2606	24.1583	24.0237	0.4667	0.1855
##	3206	BRIGHT	26.3864	25.7944	24.8777	23.9839	23.3572	23.1574	0.9167	0.8938
##	3207	FAINT	28.1566	27.8974	26.8312	25.0601	24.2265	23.2547	1.0662	1.7711
##	3208	FAINT	27.9277	27.7728	26.9368	26.5467	25.6696	25.0205	0.8360	0.3901
##	3209	FAINT	28.6640	28.3720	27.2084	25.7678	25.1698	24.9750	1.1636	1.4406
##	3210	BRIGHT	26.5624	26.0425	25.2351	24.4197	24.1479	23.9746	0.8074	0.8154
##	3211	FAINT	27.1965	27.0851	27.0219	26.4294	26.3375	26.7941	0.0632	0.5925
##	3212	FAINT	27.3377	27.5065	27.2175	26.7601	26.6165	27.6725	0.2890	0.4574
##	3213	BRIGHT	26.1128	25.1975	23.6161	22.9080	22.5889	22.3011	1.5814	0.7081
##	3214	FAINT	26.7932	26.3270	25.7662	25.3176	24.4392	24.3985	0.5608	0.4486
##	3215	FAINT	27.7317	27.9504	26.6778	26.0885	25.9115	25.4688	1.2726	0.5893
##	3216	BRIGHT	25.3142	25.2545	24.7732	24.3341	23.7497	23.2289	0.4813	0.4391
##	3217	FAINT	25.7723	25.5942	25.0904	25.0416	24.8527	25.0656	0.5038	0.0488
##	3218	BRIGHT	26.6135	25.7185	24.8833	24.6137	24.4576	24.5575	0.8352	0.2696
##	3219	FAINT	30.6687	28.6494	27.2975	26.7962	26.4940	26.2513	1.3519	0.5013
##	3220	BRIGHT	25.7700	25.1239	24.1757	23.5212	23.3463	23.2128	0.9482	0.6545
##	3221	BRIGHT	26.4968	25.5092	24.4386	24.1815	23.8963	23.9383	1.0706	0.2571
##	3222	FAINT	28.3699	28.1950	27.0283	26.4952	26.5678	25.9102	1.1667	0.5331
##	3223	BRIGHT	31.2507	26.7027	24.9926	23.8722	22.9506	22.5094	1.7101	1.1204
##	3224	FAINT	27.7323	28.1053	27.2516	26.4515	25.6132	26.1035	0.8537	0.8001
##	3225	FAINT	29.1737	27.5400	26.6833	26.2611	25.3031	25.0754	0.8567	0.4222
##	3226	FAINT	27.5071	27.1876	26.8152	26.4335	26.7247	25.9199	0.3724	0.3817
##	3227	FAINT	28.7562	27.2305	27.5649	26.5286	26.5029	25.0289	-0.3344	1.0363
##	3228	BRIGHT	26.1127	25.5514	24.6825	23.9049	23.2778	22.9684	0.8689	0.7776
##	3229	FAINT	26.4165	26.7203	26.5591	26.4181	26.6069	26.8605	0.1612	0.1410
##	3230	FAINT	26.9792	26.6979	26.8375	26.5201	26.3936	27.3400	-0.1396	0.3174
##	3231	BRIGHT	25.2398	24.7535	23.8423	23.4772	23.3511	22.9431	0.9112	0.3651
##	3232	BRIGHT	22.6141	22.0768	21.0430	20.4007	20.1794	19.9375	1.0338	0.6423
##	3233	FAINT	26.2637	26.3556	25.8413	25.2952	24.9047	24.5584	0.5143	0.5461
##	3234	BRIGHT	26.3880	25.9196	24.9223	24.7843	24.4500	24.3391	0.9973	0.1380
##	3235	BRIGHT	25.2233	25.0625	24.7092	24.2895	23.7508	23.5211	0.3533	0.4197
##	3236	FAINT	28.1228	27.2740	26.2755	25.9916	25.6824	25.7216	0.9985	0.2839
##	3237	BRIGHT	25.6745	25.2565	24.4799	24.1648	23.9714	23.9408	0.7766	0.3151
##	3238	FAINT	30.8954	28.1941	27.5281	26.8004	26.4432	25.3739	0.6660	0.7277
##	3239	BRIGHT	27.6265	26.8409	25.6046	24.5872	24.3121	23.9349	1.2363	1.0174
##	3240	BRIGHT	22.3148	21.5717	20.7955	20.5677	20.3569	20.3101	0.7762	0.2278
##	3241	BRIGHT	26.1129	25.1225	24.1104	23.8328	23.6540	23.5538	1.0121	0.2776
##	3242	FAINT	26.7917	26.9317	26.3829	26.1090	26.0509	25.8617	0.5488	0.2739
##	3243	FAINT	31.8681	27.9412	27.2751	26.5847	26.3219	26.6098	0.6661	0.6904
##	3244	BRIGHT	27.4989	25.8706	25.2724	24.5409	24.2279	23.8924	0.5982	0.7315
##	3245	BRIGHT	23.9712	23.3396	23.0004	22.7735	22.7038	22.6189	0.3392	0.2269
##	3246	FAINT	28.8065	28.5290	27.5285	26.8217	26.4706	26.0788	1.0005	0.7068
##	3247	FAINT	26.6601	26.7476	26.8488	26.5086	27.0387	27.2855	-0.1012	0.3402
##	3248	FAINT	26.5941	26.6162	26.2830	26.1327	26.7210	26.8546	0.3332	0.1503
##	3249	FAINT	26.7586	26.9981	26.2967	25.7226	25.3883	25.1319	0.7014	0.5741
##	3250	FAINT	27.6924	26.9932	26.3832	25.8759	25.0459	24.6158	0.6100	0.5073
##	3251	FAINT	26.5601	26.1696	26.3226	26.1314	26.3185	25.5142	-0.1530	0.1912
##	3252	FAINT	28.0060	26.9994	26.7307	26.1485	25.9043	25.1943	0.2687	0.5822
##	3253	FAINT	26.5065	26.5000	25.6018	25.0215	24.8621	24.8495	0.8982	0.5803
##	3254	FAINT	29.1397	27.4893	26.9442	26.6246	27.1027	25.9958	0.5451	0.3196
##	3255	FAINT	28.2393	28.2869	27.9284	26.6025	27.0570	26.0989	0.3585	1.3259
##	3256	BRIGHT	25.0572	24.3708	23.3945	22.6019	22.3108	22.0182	0.9763	0.7926
##	3257	FAINT	30.6715	28.1565	28.0977	26.6733	26.7243	27.0565	0.0588	1.4244
##	3258	BRIGHT	25.1652	24.3134	23.3599	23.0814	22.7881	22.7303	0.9535	0.2785

##	3259	FAINT	28.1480	27.9060	27.2558	26.5136	25.7519	24.9546	0.6502	0.7422
##	3260	FAINT	27.5603	27.0611	26.5828	26.0316	25.4354	25.3688	0.4783	0.5512
##	3261	FAINT	28.4816	27.1070	26.5506	26.5371	25.9412	25.1725	0.5564	0.0135
##	3262	FAINT	26.8052	27.2699	27.2142	26.8832	26.3270	26.8998	0.0557	0.3310
##	3263	BRIGHT	24.9408	24.8678	24.9355	24.9047	24.7175	24.6523	-0.0677	0.0308
##	3264	FAINT	27.0248	26.8200	27.1370	26.7989	26.5122	26.3711	-0.3170	0.3381
##	3265	FAINT	28.0100	27.9503	26.9700	26.2788	26.0314	25.4687	0.9803	0.6912
##	3266	FAINT	28.6602	28.4314	27.7222	26.9992	27.0576	26.6868	0.7092	0.7230
##	3267	FAINT	28.8016	28.4095	26.6835	26.1293	26.1578	26.3601	1.7260	0.5542
##	3268	BRIGHT	23.1297	22.6634	21.6671	21.1757	20.8752	20.6975	0.9963	0.4914
##	3269	BRIGHT	24.2768	22.9593	22.0498	21.6607	21.4886	21.2958	0.9095	0.3891
##	3270	FAINT	27.0764	26.6138	26.1987	25.6114	25.0947	24.3565	0.4151	0.5873
##	3271	BRIGHT	26.0689	25.9061	25.1279	24.5690	24.4399	24.0153	0.7782	0.5589
##	3272	BRIGHT	21.7997	21.0218	20.0561	19.7740	19.5271	19.4588	0.9657	0.2821
##	3273	FAINT	26.3438	26.2484	25.4748	25.3471	25.2494	25.1146	0.7736	0.1277
##	3274	BRIGHT	28.7546	26.7245	24.9151	23.6948	22.9394	22.5689	1.8094	1.2203
##	3275	BRIGHT	24.9647	24.9989	24.6267	24.1025	23.4192	22.8207	0.3722	0.5242
##	3276	FAINT	26.5233	26.5214	25.3780	25.2178	24.8503	25.0358	1.1434	0.1602
##	3277	FAINT	28.2893	26.4386	25.9345	25.1937	24.8085	24.7173	0.5041	0.7408
##	3278	BRIGHT	26.2782	26.1584	25.6804	24.8760	24.4957	24.2177	0.4780	0.8044
##	3279	FAINT	26.9963	27.2337	26.6924	26.6246	26.2858	25.8751	0.5413	0.0678
##	3280	BRIGHT	27.7583	27.3160	25.1549	23.6368	22.8703	21.9014	2.1611	1.5181
##	3281	FAINT	27.5158	27.3815	27.2044	26.9465	26.1187	26.1908	0.1771	0.2579
##	3282	FAINT	26.1757	25.5984	25.4636	25.1976	24.9342	24.1533	0.1348	0.2660
##	3283	FAINT	27.6725	27.5360	26.8122	25.6725	25.0948	24.1972	0.7238	1.1397
##	3284	BRIGHT	23.4479	21.4655	19.8386	19.2377	18.9110	18.7106	1.6269	0.6009
##	3285	BRIGHT	26.4705	25.6496	25.0520	24.6977	24.7717	24.6362	0.5976	0.3543
##	3286	FAINT	27.1383	27.9658	27.1482	26.6060	25.9135	26.3634	0.8176	0.5422
##	3287	BRIGHT	27.1938	25.8594	23.9360	22.8131	22.0056	21.6460	1.9234	1.1229
##	3288	BRIGHT	26.2856	25.6180	24.4626	23.8166	23.5906	23.2952	1.1554	0.6460
##	3289	BRIGHT	27.2999	26.0979	24.4851	23.1994	22.6696	22.3124	1.6128	1.2857
##	3290	FAINT	28.8725	29.5030	27.3550	26.6150	26.2670	25.5889	2.1480	0.7400
##	3291	BRIGHT	26.0012	25.5175	24.7223	24.5525	24.3334	24.6604	0.7952	0.1698
##	3292	BRIGHT	25.1490	24.6565	23.7965	23.5907	23.4123	23.4193	0.8600	0.2058
##	3293	BRIGHT	27.6787	26.3055	25.4155	24.5337	24.3928	24.4397	0.8900	0.8818
##	3294	BRIGHT	25.9333	25.0668	24.1829	23.8798	23.7183	23.6019	0.8839	0.3031
##	3295	FAINT	26.6519	26.4747	25.8264	25.7986	25.6811	25.7199	0.6483	0.0278
##	3296	BRIGHT	26.9154	27.0077	24.7309	23.3345	22.4907	21.5537	2.2768	1.3964
##	3297	FAINT	30.0203	28.8152	27.7368	26.9625	26.3471	25.9176	1.0784	0.7743
##	3298	FAINT	31.1241	30.4364	27.6747	26.6880	28.2224	26.0296	2.7617	0.9867
##	3299	BRIGHT	24.9266	23.4089	22.4509	22.0299	21.8169	21.6533	0.9580	0.4210
##	3300	BRIGHT	26.1806	25.8407	25.1798	24.6660	24.5352	24.4280	0.6609	0.5138
##	3301	BRIGHT	24.3510	22.1041	20.4449	19.6847	19.2919	19.0380	1.6592	0.7602
##	3302	BRIGHT	27.3670	25.4071	23.8163	22.6296	22.2053	21.8241	1.5908	1.1867
##	3303	BRIGHT	27.4065	26.5462	25.7117	24.9170	24.0442	23.5565	0.8345	0.7947
##	3304	FAINT	28.1020	27.9104	27.3651	26.4049	26.0765	25.8095	0.5453	0.9602
##	3305	FAINT	26.3615	25.8670	25.2036	25.0988	25.0516	25.1004	0.6634	0.1048
##	3306	FAINT	26.4084	25.6416	25.2629	25.0274	25.0692	24.8895	0.3787	0.2355
##	3307	FAINT	26.9317	26.8144	26.1398	26.0129	26.0606	25.4426	0.6746	0.1269
##	3308	BRIGHT	25.3269	24.0098	22.4613	21.3148	20.8907	20.5369	1.5485	1.1465
##	3309	FAINT	27.6402	28.5928	27.0290	26.5718	25.9722	25.4602	1.5638	0.4572
##	3310	BRIGHT	27.2388	26.0059	25.0000	24.5661	24.4857	24.2336	1.0059	0.4339
##	3311	FAINT	28.0313	26.6500	25.9941	25.3273	25.1620	25.0772	0.6559	0.6668
##	3312	FAINT	27.3947	26.5832	25.9087	25.6728	24.9904	24.5953	0.6745	0.2359
##	3313	FAINT	26.9653	27.0149	27.0757	26.8656	26.5823	25.7588	-0.0608	0.2101
##	3314	BRIGHT	24.7751	23.6315	22.4677	21.6643	21.3776	21.1202	1.1638	0.8034
##	3315	FAINT	27.9288	27.4186	26.5488	25.4142	24.6353	23.8218	0.8698	1.1346
##	3316	FAINT	31.8319	28.1787	26.8400	26.1068	26.0636	25.5980	1.3387	0.7332
##	3317	FAINT	26.8927	26.6947	26.0642	25.5894	25.1594	25.1316	0.6305	0.4748
##	3318	FAINT	26.9807	26.1994	25.6629	25.3264	25.3967	25.4567	0.5365	0.3365
##	3319	BRIGHT	25.2311	24.4853	23.5299	23.2358	23.0611	22.9075	0.9554	0.2941
##	3320	BRIGHT	27.0332	26.3702	25.5088	24.8013	24.2051	23.4673	0.8614	0.7075
##	3321	FAINT	28.2557	28.8273	27.2098	26.7519	26.5787	26.1477	1.6175	0.4579
##	3322	FAINT	27.2516	27.3922	26.8652	26.3584	25.8473	25.5992	0.5270	0.5068
##	3323	BRIGHT	25.9888	25.5934	24.8752	24.6592	24.5227	24.2764	0.7182	0.2160
##	3324	FAINT	27.4235	27.1243	26.8351	26.2406	26.2168	26.9630	0.2892	0.5945
##	3325	FAINT	29.2380	28.2093	27.4276	26.7998	26.3574	26.7354	0.7817	0.6278
##	3326	BRIGHT	26.9437	26.8475	25.7972	24.9561	24.4936	24.2252	1.0503	0.8411
##	3327	BRIGHT	23.6019	22.4272	22.0019	21.7368	21.7211	21.6450	0.4253	0.2651
##	3328	BRIGHT	24.8412	24.3935	23.7132	23.5815	23.3932	23.3183	0.6803	0.1317
##	3329	FAINT	27.8901	27.4051	26.8355	26.5613	26.0567	26.7930	0.5696	0.2742
##	3330	FAINT	26.8993	26.0454	25.4653	25.1757	25.0635	25.0698	0.5801	0.2896
##	3331	FAINT	28.3027	27.8042	26.5498	25.7904	25.6202	25.2071	1.2544	0.7594
##	3332	FAINT	26.6453	26.8585	25.9547	25.2505	25.2263	25.0680	0.9038	0.7042
##	3333	BRIGHT	23.3684	22.8134	22.6760	22.5266	22.5769	22.5126	0.1374	0.1494
##	3334	BRIGHT	25.2933	25.2385	25.0622	24.7284	24.4669	24.0557	0.1763	0.3338
##	3335	BRIGHT	26.6654	26.5057	25.3503	24.3083	23.9598	23.7595	1.1554	1.0420
##	3336	BRIGHT	25.7199	25.4972	24.7340	23.7280	23.3149	23.2093	0.7632	1.0060
##	3337	FAINT	27.2615	28.1048	27.4631	26.7537	26.5624	26.4075	0.6417	0.7094

##	3338	FAINT	28.8812	27.6034	27.0350	26.5672	26.2489	25.6216	0.5684	0.4678
##	3339	BRIGHT	25.4309	25.1464	24.8551	24.5377	24.2387	23.9845	0.2913	0.3174
##	3340	FAINT	26.8804	26.8530	25.9987	25.6561	25.6950	25.6228	0.8543	0.3426
##	3341	FAINT	28.0704	27.1480	26.3630	25.8699	25.5772	25.4510	0.7850	0.4931
##	3342	BRIGHT	26.1006	25.7279	25.0143	24.1071	23.4672	22.6797	0.7136	0.9072
##	3343	FAINT	26.8703	26.4267	25.8772	25.6300	25.6122	25.5666	0.5495	0.2472
##	3344	FAINT	29.5214	28.0183	27.3425	26.2102	25.8892	25.1623	0.6758	1.1323
##	3345	BRIGHT	23.5560	23.3273	22.9143	22.4044	21.8455	21.6209	0.4130	0.5099
##	3346	FAINT	27.3814	27.7799	26.6502	25.7448	24.9176	24.3992	1.1297	0.9054
##	3347	FAINT	29.4775	27.5594	26.4641	25.3592	25.0560	24.7892	1.0953	1.1049
##	3348	FAINT	28.0717	27.1239	26.7923	26.7373	25.8925	25.6378	0.3316	0.0550
##	3349	BRIGHT	25.9148	25.3469	24.5450	24.3358	24.2386	24.1265	0.8019	0.2092
##	3350	BRIGHT	27.5279	24.8916	23.2228	22.0494	21.6124	21.2559	1.6688	1.1734
##	3351	FAINT	26.5014	26.4731	25.9683	25.4782	25.1476	25.2435	0.5048	0.4901
##	3352	FAINT	27.8559	27.3923	27.1341	26.6734	28.7581	26.2674	0.2582	0.4607
##	3353	FAINT	27.5151	26.9781	26.6153	26.0786	25.8384	25.0776	0.3628	0.5367
##	3354	BRIGHT	23.5552	21.2583	19.5962	18.8655	18.4836	18.2522	1.6621	0.7307
##	3355	FAINT	27.3291	27.1951	26.6765	26.7676	27.0624	25.7121	0.5186	-0.0911
##	3356	BRIGHT	25.3157	25.1951	25.0223	24.9532	24.6591	25.1771	0.1728	0.0691
##	3357	BRIGHT	20.7499	19.3800	18.5199	18.1246	17.9349	17.7596	0.8601	0.3953
##	3358	FAINT	27.4587	27.4962	27.0519	26.6110	25.9009	25.0151	0.4443	0.4409
##	3359	FAINT	26.1683	26.1098	25.6113	25.0127	24.9300	24.5618	0.4985	0.5986
##	3360	FAINT	28.3936	27.3492	26.5037	26.1008	25.7566	26.0965	0.8455	0.4029
##	3361	FAINT	28.4744	28.0799	27.0556	26.2799	26.5441	26.7033	1.0243	0.7757
##	3362	FAINT	26.7375	25.8434	25.2478	25.0688	24.9843	24.9015	0.5956	0.1790
##	3363	FAINT	26.4526	26.0524	25.3458	25.1759	24.9301	25.0400	0.7066	0.1699
##	3364	BRIGHT	26.3308	25.6949	24.9229	24.3764	23.7424	23.2453	0.7720	0.5465
##	3365	BRIGHT	26.0790	25.8449	25.2754	24.6857	24.5067	24.5794	0.5695	0.5897
##	3366	BRIGHT	26.4484	25.4075	24.6232	24.4922	24.3900	24.3213	0.7843	0.1310
##	3367	BRIGHT	25.9219	25.1376	24.2411	23.4180	23.1952	23.0225	0.8965	0.8231
##	3368	FAINT	29.3446	29.7278	27.2749	26.4707	26.0894	26.7135	2.4529	0.8042
##	3369	BRIGHT	26.2990	25.8928	25.0747	24.9703	24.7813	25.2901	0.8181	0.1044
##	3370	BRIGHT	22.2635	20.7194	19.5862	19.1066	18.8514	18.6231	1.1332	0.4796
##	3371	FAINT	32.7222	26.6987	26.2735	25.2143	25.0143	24.7399	0.4252	1.0592
##	3372	FAINT	25.5913	25.7229	25.5689	25.2445	25.0915	24.6845	0.1540	0.3244
##	3373	FAINT	27.4954	26.9082	26.4390	26.0616	25.2944	25.0276	0.4692	0.3774
##	3374	FAINT	27.5103	26.9591	26.3075	25.8735	25.2129	25.0013	0.6516	0.4340
##	3375	BRIGHT	26.4013	25.8540	25.1457	24.9764	24.8031	24.7566	0.7083	0.1693
##	3376	BRIGHT	25.4672	24.5726	23.6441	23.2728	23.0733	22.7840	0.9285	0.3713
##	3377	FAINT	26.8420	27.0316	26.2743	25.6002	24.8004	24.5616	0.7573	0.6741
##	3378	FAINT	28.6667	27.7408	27.5852	26.8109	26.4828	26.9925	0.1556	0.7743
##	3379	FAINT	28.3609	27.1649	26.5780	25.8464	25.4733	24.7794	0.5869	0.7316
##	3380	FAINT	28.4497	26.4728	25.8805	25.3638	25.0715	24.3147	0.5923	0.5167
##	3381	BRIGHT	23.6131	23.1679	22.4683	21.6259	21.2968	21.1242	0.6996	0.8424
##	3382	FAINT	27.3521	27.6446	26.8559	26.8127	26.9049	26.8936	0.7887	0.0432
##	3383	BRIGHT	26.0230	25.0966	24.2592	23.9380	23.7233	23.7043	0.8374	0.3212
##	3384	BRIGHT	24.6310	24.4606	23.8621	23.0670	22.6618	22.4451	0.5985	0.7951
##	3385	FAINT	28.9387	27.2911	26.2598	26.0060	25.6800	26.3150	1.0313	0.2538
##	3386	BRIGHT	25.0939	24.7779	24.1045	23.5031	23.3104	23.0510	0.6734	0.6014
##	3387	FAINT	27.0523	26.5713	26.1388	25.7610	25.2017	24.9636	0.4325	0.3778
##	3388	FAINT	26.9188	26.8576	26.7024	26.7242	26.7962	26.1640	0.1552	-0.0218
##	3389	FAINT	26.9081	26.4743	25.7926	25.2949	24.6087	24.5040	0.6817	0.4977
##	3390	FAINT	28.0602	28.1983	27.2828	26.7245	25.8476	25.2412	0.9155	0.5583
##	3391	FAINT	26.0057	25.9309	25.7183	25.5529	25.2528	24.9309	0.2126	0.1654
##	3392	FAINT	26.2966	25.8999	25.6298	25.4555	25.1526	24.9799	0.2701	0.1743
##	3393	FAINT	28.3214	26.6946	26.2105	25.9313	25.9510	25.5176	0.4841	0.2792
##	3394	BRIGHT	27.3183	26.8603	24.4440	23.2150	22.2128	21.4456	2.4163	1.2290
##	3395	FAINT	27.6810	27.6873	26.0132	25.2686	25.4129	24.8783	1.6741	0.7446
##	3396	FAINT	27.2197	26.6788	25.8658	25.8172	25.5216	25.0272	0.8130	0.0486
##	3397	FAINT	27.0502	26.4579	25.6462	25.0542	24.8830	24.5061	0.8117	0.5920
##	3398	BRIGHT	24.5338	23.8642	22.9004	22.5757	22.4373	22.1079	0.9638	0.3247
##	3399	FAINT	27.5711	27.0458	26.4729	25.9472	25.3581	25.7716	0.5729	0.5257
##	3400	FAINT	26.9709	26.2626	25.4054	25.2256	25.0368	25.0261	0.8572	0.1798
##	3401	FAINT	26.6296	26.5988	26.6390	26.8077	27.0021	26.5314	-0.0402	-0.1687
##	3402	FAINT	27.6158	27.1373	26.9951	26.3151	26.0069	24.9539	0.1422	0.6800
##	3403	FAINT	27.9938	27.5691	26.9371	26.9400	27.5271	26.5587	0.6320	-0.0029
##	3404	FAINT	30.2235	27.6056	26.4145	25.5474	25.7137	24.9377	1.1911	0.8671
##	3405	BRIGHT	25.8487	25.3963	25.0301	24.9731	24.6985	24.8853	0.3662	0.0570
##	3406	FAINT	26.7252	26.2781	25.7418	25.6797	25.3571	25.1929	0.5363	0.0621
##	3407	FAINT	27.8694	27.6479	26.4616	25.6885	25.1876	24.9547	1.1863	0.7731
##	3408	FAINT	28.1952	27.6840	26.6648	26.2631	26.1383	26.4258	1.0192	0.4017
##	3409	FAINT	27.9945	27.0879	27.2539	26.9407	26.1255	26.2824	-0.1660	0.3132
##	3410	FAINT	26.0234	26.2097	26.3943	26.4570	26.3863	26.9922	-0.1846	-0.0627
##	3411	FAINT	29.4968	26.9206	26.6501	26.7634	26.1897	27.3180	0.2705	-0.1133
##	3412	FAINT	29.3090	27.7598	27.1567	26.5229	27.2217	27.7226	0.6031	0.6338
##	3413	FAINT	27.5901	26.7990	26.8432	26.2884	26.2984	25.5757	-0.0442	0.5548
##	3414	BRIGHT	24.4649	23.8462	22.9079	22.0808	21.4687	21.2411	0.9383	0.8271
##	3415	BRIGHT	26.7311	25.8874	24.6673	23.6188	23.0265	22.7591	1.2201	1.0485
##	3416	BRIGHT	25.6495	24.7769	23.7556	23.4525	23.2544	23.1734	1.0213	0.3031

##	3417	FAINT	28.8355	27.2612	26.7578	25.8516	25.7118	25.6631	0.5034	0.9062
##	3418	FAINT	28.4391	26.7365	25.5648	25.0004	24.8488	24.8343	1.1717	0.5644
##	3419	FAINT	30.4701	29.3076	28.2815	26.7723	25.9651	24.9762	1.0261	1.5092
##	3420	BRIGHT	26.7451	25.4450	23.5064	22.4053	21.5443	21.1757	1.9386	1.1011
##	3421	BRIGHT	26.0451	25.4771	25.1362	24.9731	25.0228	24.8715	0.3409	0.1631
##	3422	BRIGHT	26.6979	25.8401	23.7356	22.5595	21.7336	21.3670	2.1045	1.1761
##	3423	FAINT	28.2367	27.1898	26.8807	26.3246	25.6003	24.8978	0.3091	0.5561
##	3424	FAINT	29.9530	27.9246	26.9368	26.4787	25.5820	25.1473	0.9878	0.4581
##	3425	BRIGHT	25.9451	25.5211	25.1654	24.6807	24.4172	23.9178	0.3557	0.4847
##	3426	FAINT	28.5692	30.1071	28.2274	26.6586	25.1932	24.0710	1.8797	1.5688
##	3427	BRIGHT	23.9685	23.8182	23.1964	22.3172	21.9638	21.7964	0.6218	0.8792
##	3428	BRIGHT	23.8939	23.3908	22.3722	21.3792	21.0167	20.7387	1.0186	0.9930
##	3429	BRIGHT	24.4619	24.2929	23.8247	23.1359	22.9007	22.8285	0.4682	0.6888
##	3430	FAINT	27.2696	27.4612	26.5614	26.7037	26.8309	27.4474	0.8998	-0.1423
##	3431	FAINT	25.4585	25.4860	25.2524	25.4071	25.1393	25.4944	0.2336	-0.1547
##	3432	FAINT	28.3434	27.3036	26.3088	26.2048	25.8117	26.3353	0.9948	0.1040
##	3433	FAINT	29.2535	28.5433	28.1739	26.8277	26.8746	26.4392	0.3694	1.3462
##	3434	FAINT	27.5520	27.4932	26.9695	26.7406	26.5047	25.9766	0.5237	0.2289
##	3435	FAINT	27.2539	28.7187	27.4122	26.5009	25.6246	25.9756	1.3065	0.9113
##	3436	BRIGHT	24.5769	23.9096	22.8725	22.5844	22.4076	22.3199	1.0371	0.2881
##	3437	BRIGHT	27.2566	24.7846	23.1074	21.9038	21.4260	21.0404	1.6772	1.2036
##	3438	FAINT	28.1741	28.0031	26.5850	25.4728	24.6937	24.5172	1.4181	1.1122
##	3439	FAINT	28.0373	28.3383	27.5007	26.6188	26.1162	28.5196	0.8376	0.8819
##	3440	BRIGHT	26.4228	25.5415	24.5905	24.0792	23.9197	23.6292	0.9510	0.5113
##	3441	BRIGHT	23.0758	21.8429	20.3939	19.7903	19.4449	19.2345	1.4490	0.6036
##	3442	FAINT	26.7539	26.9710	26.7462	26.5373	26.1096	25.5709	0.2248	0.2089
##	3443	FAINT	27.7390	27.7774	26.9243	26.2689	25.4937	24.8522	0.8531	0.6554
##	3444	FAINT	27.9557	27.0067	26.9931	26.8123	26.7773	25.4885	0.0136	0.1808
##	3445	BRIGHT	22.1405	20.8786	19.9561	19.5388	19.2933	19.0915	0.9225	0.4173
##	3446	FAINT	27.8437	28.2007	27.1039	26.2746	25.9695	25.8907	1.0968	0.8293
##	3447	FAINT	28.4585	26.8598	25.3955	25.0326	24.8495	24.5122	1.4643	0.3629
##	3448	FAINT	26.1657	26.1148	25.8742	25.7693	25.6612	25.4315	0.2406	0.1049
##	3449	FAINT	32.8733	27.1957	26.4886	25.7506	25.0420	24.9200	0.7071	0.7380
##	3450	FAINT	28.1407	28.5003	27.0558	25.7679	25.0107	24.5070	1.4445	1.2879
##	3451	FAINT	25.9418	26.3083	26.4550	26.2733	25.9523	26.2162	-0.1467	0.1817
##	3452	BRIGHT	24.0605	23.9069	23.4597	22.6996	21.9994	21.2656	0.4472	0.7601
##	3453	BRIGHT	29.4142	27.3581	25.9853	24.8833	24.5063	24.5231	1.3728	1.1020
##	3454	BRIGHT	27.3978	27.2569	25.6834	24.5862	23.5766	22.9329	1.5735	1.0972
##	3455	FAINT	27.5417	26.6766	25.7492	25.3741	25.1650	25.1818	0.9274	0.3751
##	3456	FAINT	28.5578	27.3631	27.1598	26.3887	26.1719	25.7326	0.2033	0.7711
##	3457	FAINT	26.2086	25.6911	25.4827	25.3048	25.1703	25.4866	0.2084	0.1779
##	3458	BRIGHT	28.2100	27.2852	25.6063	24.4372	23.4937	22.7881	1.6789	1.1691
##	3459	FAINT	28.7023	28.0132	27.3442	26.7167	26.6934	27.1193	0.6690	0.6275
##	3460	BRIGHT	26.7057	25.7948	25.2268	24.9414	24.7724	24.6685	0.5680	0.2854
##	3461	FAINT	28.7883	28.1488	27.6144	26.9541	26.1473	25.5206	0.5344	0.6603
##	3462	FAINT	28.5846	28.6074	26.8316	26.0826	25.4059	24.9915	1.7758	0.7490
##	3463	BRIGHT	26.3957	24.0005	22.3754	21.4294	21.0386	20.7453	1.6251	0.9460
##	3464	FAINT	28.6511	28.7796	28.0029	26.7803	26.5849	26.1380	0.7767	1.2226
##	3465	FAINT	28.3272	28.1147	26.8820	26.6100	26.5016	26.8327	1.2327	0.2720
##	3466	FAINT	28.6743	28.7650	27.2815	26.6081	26.3807	25.4561	1.4835	0.6734
##	3467	FAINT	28.3102	28.3407	27.5721	26.8973	25.8327	26.3791	0.7686	0.6748
##	3468	BRIGHT	25.2475	25.1516	24.6696	24.5490	24.5789	24.6334	0.4820	0.1206
##	3469	BRIGHT	28.0869	26.2573	24.9787	23.8176	23.1182	22.8246	1.2786	1.1611
##	3470	FAINT	27.0987	26.4524	25.9952	25.8344	24.9279	24.7705	0.4572	0.1608
##	3471	FAINT	28.9165	28.0527	27.3343	26.6249	26.8998	26.0418	0.7184	0.7094
##	3472	FAINT	28.2527	27.4029	26.7865	26.5007	26.4747	25.6505	0.6164	0.2858
##	3473	BRIGHT	25.4288	24.6632	23.7429	23.4774	23.2525	23.2632	0.9203	0.2655
##	3474	BRIGHT	24.4280	24.0985	23.5866	23.5521	23.3003	23.5109	0.5119	0.0345
##	3475	BRIGHT	28.1992	27.8629	25.8650	24.8553	24.6440	24.4472	1.9979	1.0097
##	3476	FAINT	28.9503	27.4953	26.9887	26.5538	26.2901	26.2199	0.5066	0.4349
##	3477	FAINT	28.6770	26.9174	26.4501	25.9492	25.9709	25.5171	0.4673	0.5009
##	3478	FAINT	28.5354	27.8331	26.9640	26.0525	26.1538	26.7956	0.8691	0.9115
##	3479	FAINT	29.2741	26.9544	26.2755	25.8750	25.8871	27.1499	0.6789	0.4005
##	3480	BRIGHT	26.6595	26.0131	25.4111	24.8668	24.1802	23.8314	0.6020	0.5443
##	3481	BRIGHT	26.4612	26.1642	24.3699	23.2674	22.4275	22.0499	1.7943	1.1025
##	3482	FAINT	28.0189	27.7142	27.0228	26.6239	26.8513	26.5793	0.6914	0.3989
##	3483	FAINT	26.9597	26.8018	26.3570	26.5249	25.6472	25.8767	0.4448	-0.1679
##	3484	FAINT	28.4143	28.2468	26.7333	25.4087	24.8284	23.7213	1.5135	1.3246
##	3485	FAINT	27.8102	27.1288	27.2839	26.1966	26.3445	25.5863	-0.1551	1.0873
##	3486	FAINT	27.1896	26.4980	25.9506	25.1652	24.5640	23.8411	0.5474	0.7854
##	3487	FAINT	28.7429	27.1800	26.5819	26.0828	25.3846	25.1406	0.5981	0.4991
##	3488	BRIGHT	28.3983	26.8836	25.5553	24.6981	24.3258	23.8618	1.3283	0.8572
##	3489	FAINT	27.2152	26.8479	26.1818	25.4933	25.0390	24.7260	0.6661	0.6885
##	3490	BRIGHT	25.1157	25.0980	24.9838	24.9676	24.9131	24.5991	0.1142	0.0162
##	3491	FAINT	28.6073	28.1488	26.7722	26.4014	26.0363	25.4709	1.3766	0.3708
##	3492	BRIGHT	24.3082	23.5716	23.2689	23.0731	23.0519	23.0912	0.3027	0.1958
##	3493	FAINT	26.4129	26.5122	26.5426	26.3643	26.6343	26.5352	-0.0304	0.1783
##	3494	BRIGHT	24.7177	22.7008	21.1027	20.3841	20.0139	19.7699	1.5981	0.7186
##	3495	FAINT	28.3380	27.2833	26.5031	25.9241	25.2793	24.9859	0.7802	0.5790

##	3496	FAINT	28.6328	27.8294	26.9644	26.9746	25.8517	26.3403	0.8650	-0.0102
##	3497	BRIGHT	23.2103	22.5863	21.6252	21.3328	21.1405	21.0400	0.9611	0.2924
##	3498	FAINT	27.7849	26.7088	26.0039	25.8414	25.5438	25.4163	0.7049	0.1625
##	3499	BRIGHT	26.6321	26.5022	25.2462	24.1822	23.4592	23.1721	1.2560	1.0640
##	3500	FAINT	27.8111	27.9092	27.0813	26.9609	26.4509	26.5239	0.8279	0.1204
##	3501	BRIGHT	24.8680	24.1031	23.0763	22.5610	22.3425	22.0911	1.0268	0.5153
##	3502	FAINT	26.8041	26.4434	25.3274	25.1170	24.8600	24.7372	1.1160	0.2104
##	3503	FAINT	27.3589	26.7338	25.9514	25.3926	25.2466	24.9813	0.7824	0.5588
##	3504	BRIGHT	27.3649	26.5800	25.5192	24.6043	24.3063	24.0231	1.0608	0.9149
##	3505	BRIGHT	26.7650	25.7809	24.7910	24.3929	24.1201	23.9638	0.9899	0.3981
##	3506	FAINT	27.1349	26.4607	26.3295	26.0330	26.1376	25.3430	0.1312	0.2965
##	3507	FAINT	29.3190	28.4615	28.3575	26.8019	25.6226	25.0000	0.1040	1.5556
##	3508	FAINT	28.9656	28.6225	27.4799	26.5727	26.6325	25.7361	1.1426	0.9072
##	3509	BRIGHT	24.9580	24.6719	23.9373	23.1840	22.3453	21.8219	0.7346	0.7533
##	3510	BRIGHT	24.7548	24.0676	23.1212	22.8911	22.6777	22.6971	0.9464	0.2301
##	3511	FAINT	27.0666	27.1976	26.2797	26.2275	26.0868	25.4988	0.9179	0.0522
##	3512	FAINT	30.6996	27.5105	26.5150	26.5458	26.5021	27.0664	0.9955	-0.0308
##	3513	FAINT	27.4201	27.2319	26.3851	26.0895	25.8682	26.0465	0.8468	0.2956
##	3514	FAINT	28.7446	27.0046	26.6581	26.3828	25.6044	25.3227	0.3465	0.2753
##	3515	FAINT	26.7120	26.6828	25.8870	25.2113	25.1010	24.8978	0.7958	0.6757
##	3516	FAINT	27.3207	27.9823	27.1897	26.6668	26.0850	25.4921	0.7926	0.5229
##	3517	FAINT	26.1572	26.5947	26.2886	26.0780	26.0493	27.0361	0.3061	0.2106
##	3518	BRIGHT	24.2228	23.2320	22.3860	21.9853	21.7895	21.5813	0.8460	0.4007
##	3519	FAINT	27.2729	27.3957	27.6748	26.5834	25.9380	25.5890	-0.2791	1.0914
##	3520	FAINT	30.1026	27.4216	26.4850	25.8818	25.7528	25.2339	0.9366	0.6032
##	3521	FAINT	29.7818	30.6990	27.1527	26.9105	26.6201	25.4191	3.5463	0.2422
##	3522	BRIGHT	22.4462	20.8510	19.5821	19.0945	18.8532	18.6102	1.2689	0.4876
##	3523	FAINT	29.7278	28.4284	27.1575	25.9030	25.5190	24.9419	1.2709	1.2545
##	3524	BRIGHT	24.9108	24.7949	24.2054	23.5931	23.3958	23.1607	0.5895	0.6123
##	3525	BRIGHT	26.0076	25.4935	24.6958	24.5327	24.3792	24.3518	0.7977	0.1631
##	3526	FAINT	26.8620	26.1535	25.8767	25.3419	25.1431	24.2588	0.2768	0.5348
##	3527	FAINT	29.2859	27.7908	27.0909	26.3838	25.8557	25.1490	0.6999	0.7071
##	3528	BRIGHT	26.4463	25.9135	24.8469	23.8693	23.4502	23.1607	1.0666	0.9776
##	3529	BRIGHT	25.0753	24.9200	24.5270	23.8561	23.5028	23.4269	0.3930	0.6709
##	3530	BRIGHT	24.4450	22.9722	22.1932	21.8131	21.6048	21.4515	0.7790	0.3801
##	3531	FAINT	27.5029	27.5186	26.3684	25.7143	25.4754	25.7028	1.1502	0.6541
##	3532	FAINT	25.8638	25.6346	25.4127	25.0351	24.4925	24.5185	0.2219	0.3776
##	3533	BRIGHT	24.9383	24.0647	22.9611	22.4081	22.1796	21.9048	1.1036	0.5530
##	3534	FAINT	26.9585	26.6550	26.2921	25.9111	25.2577	24.9168	0.3629	0.3810
##	3535	BRIGHT	28.2816	25.7989	25.0521	24.7382	24.6192	24.4874	0.7468	0.3139
##	3536	FAINT	28.4280	27.8148	27.3134	26.6286	25.8251	25.1246	0.5014	0.6848
##	3537	FAINT	27.9274	27.5948	27.9349	26.4891	26.5802	26.5416	-0.3401	1.4458
##	3538	FAINT	27.3381	26.7202	26.7404	26.4573	27.0364	26.5957	-0.0202	0.2831
##	3539	BRIGHT	26.9724	26.1248	24.7426	23.5221	22.7190	21.8760	1.3822	1.2205
##	3540	FAINT	29.0611	27.4345	26.6587	26.3678	26.6053	26.0544	0.7758	0.2909
##	3541	BRIGHT	26.8637	25.5963	23.8267	22.5798	21.9687	21.6262	1.7696	1.2469
##	3542	FAINT	26.2975	25.8559	25.5963	25.1183	24.8288	24.1145	0.2596	0.4780
##	3543	BRIGHT	30.5255	27.8444	26.4501	24.8355	24.0865	23.1019	1.3943	1.6146
##	3544	FAINT	28.3532	27.8254	27.2574	26.6837	26.1782	26.4999	0.5680	0.5737
##	3545	BRIGHT	23.8877	23.9185	23.7776	23.4272	23.0178	22.7373	0.1409	0.3504
##	3546	FAINT	28.0721	28.2129	26.9438	25.9855	25.7150	25.7664	1.2691	0.9583
##	3547	FAINT	27.2414	26.8505	26.3472	25.8355	25.4060	25.0679	0.5033	0.5117
##	3548	FAINT	27.4652	26.3181	25.8188	25.2957	24.8661	24.6823	0.4993	0.5231
##	3549	BRIGHT	24.5716	23.6925	22.6793	22.0607	21.8279	21.6052	1.0132	0.6186
##	3550	FAINT	27.0235	27.0392	26.9183	26.2423	26.3496	25.8464	0.1209	0.6760
##	3551	FAINT	28.8235	29.0933	28.1775	26.8693	27.9252	27.3368	0.9158	1.3082
##	3552	FAINT	25.5064	25.8497	25.8281	25.5404	25.5730	25.9316	0.0216	0.2877
##	3553	FAINT	26.7572	26.9306	26.7122	26.4128	26.3670	26.0348	0.2184	0.2994
##	3554	BRIGHT	25.4544	24.6879	23.5735	23.0990	22.8870	22.4919	1.1144	0.4745
##	3555	FAINT	26.4708	26.2826	25.3846	25.2118	25.1341	24.8741	0.8980	0.1728
##	3556	FAINT	26.7902	26.8888	26.5739	26.3044	26.1583	25.8055	0.3149	0.2695
##	3557	FAINT	27.4826	27.5120	26.9083	26.2053	25.5203	25.1218	0.6037	0.7030
##	3558	FAINT	28.0102	27.4836	26.0120	25.1604	24.7977	24.6422	1.4716	0.8516
##	3559	FAINT	28.5198	29.1291	27.3843	26.5979	25.8457	25.3519	1.7448	0.7864
##	3560	BRIGHT	26.5574	25.9939	25.1036	24.8603	24.6582	24.7485	0.8903	0.2433
##	3561	BRIGHT	28.1576	26.1464	25.1807	24.5038	24.4112	24.2292	0.9657	0.6769
##	3562	FAINT	27.4451	26.9548	26.3113	26.2885	25.9208	25.7841	0.6435	0.0228
##	3563	BRIGHT	25.8469	25.8530	25.4020	24.8850	24.8032	24.6805	0.4510	0.5170
##	3564	BRIGHT	25.9243	24.8972	23.8234	22.7742	22.3768	22.0707	1.0738	1.0492
##	3565	FAINT	27.3157	26.7890	26.0436	25.8159	25.6436	25.0680	0.7454	0.2277
##	3566	FAINT	27.5396	27.6917	27.1981	26.6823	25.9408	25.3183	0.4936	0.5158
##	3567	FAINT	26.4279	26.0577	25.6240	25.4364	25.5347	25.3751	0.4337	0.1876
##	3568	FAINT	26.7548	26.7082	26.8070	26.7056	26.8689	27.0449	-0.0988	0.1014
##	3569	BRIGHT	24.1775	23.5246	22.5809	21.6534	21.1959	20.9520	0.9437	0.9275
##	3570	BRIGHT	24.0787	23.0983	22.6345	22.3714	22.3525	22.2775	0.4638	0.2631
##	3571	FAINT	27.3188	27.1874	26.2736	25.6061	25.6004	25.3874	0.9138	0.6675
##	3572	FAINT	29.0372	27.6440	27.6004	26.9915	26.3193	25.6999	0.0436	0.6089
##	3573	FAINT	26.3731	26.2490	25.9173	25.4412	25.1415	24.6389	0.3317	0.4761
##	3574	FAINT	27.5040	27.4615	26.8494	26.3682	25.9400	25.3719	0.6121	0.4812

```
## 3575 FAINT 28.4916 29.0827 28.0194 26.5202 26.3679 26.0443 1.0633 1.4992
## 3576 FAINT 27.0921 26.6557 25.7026 25.4729 25.3285 24.8701 0.9531 0.2297
## 3577 BRIGHT 27.7821 26.9981 25.0026 23.5516 22.6836 21.7591 1.9955 1.4510
## 3578 FAINT 27.7506 27.1027 27.2144 26.4521 26.2550 25.4985 -0.1117 0.7623
## 3579 BRIGHT 26.8560 27.0203 25.7138 24.9001 24.6893 24.2431 1.3065 0.8137
## 3580 FAINT 26.6911 26.5504 26.0778 25.4922 25.0740 24.9647 0.4726 0.5856
## 3581 FAINT 26.1724 26.4099 26.0629 25.7309 25.0886 24.7747 0.3470 0.3320
## 3582 FAINT 26.5900 26.5599 25.9413 25.2050 24.4019 23.9020 0.6186 0.7363
## 3583 FAINT 29.4897 27.8897 27.2914 26.8476 26.2367 26.3903 0.5983 0.4438
## 3584 BRIGHT 26.4557 25.5707 24.1338 22.9815 22.5412 22.1772 1.4369 1.1523
## 3585 BRIGHT 26.0889 25.5461 24.7770 24.4013 24.3288 24.2735 0.7691 0.3757
## 3586 FAINT 26.8666 26.3224 25.8120 25.6327 25.6940 25.2583 0.5104 0.1793
## 3587 FAINT 27.7438 27.5144 26.7137 26.4555 25.7544 25.5534 0.8007 0.2582
## 3588 FAINT 27.9665 29.7567 27.2036 26.4134 25.6107 24.6657 2.5531 0.7902
## 3589 FAINT 29.0396 28.2416 28.5384 26.7823 26.4985 28.8714 -0.2968 1.7561
## 3590 FAINT 28.6863 28.0837 27.0897 26.4992 26.0114 27.4231 0.9940 0.5905
## 3591 BRIGHT 25.7559 25.2424 24.5728 24.1179 23.5108 23.3672 0.6696 0.4549
## 3592 BRIGHT 25.5724 24.1528 22.5512 21.5021 21.0707 20.6867 1.6016 1.0491
## 3593 FAINT 27.9624 27.7839 26.1836 25.0362 24.1396 23.7304 1.6003 1.1474
## 3594 FAINT 27.9214 28.2500 26.9939 26.4325 26.3366 25.7321 1.2561 0.5614
## 3595 BRIGHT 26.0516 24.6182 22.6922 21.5433 20.7340 20.3968 1.9260 1.1489
## 3596 FAINT 27.0316 26.5737 26.4332 26.1746 25.6920 25.0306 0.1405 0.2586
## 3597 BRIGHT 24.0584 23.2268 21.9198 20.8655 20.4683 20.1457 1.3070 1.0543
## 3598 FAINT 27.4760 27.1404 26.9071 26.2811 26.2774 26.0811 0.2333 0.6260
## 3599 FAINT 26.7650 26.4906 26.3550 26.2922 26.6070 26.1454 0.1356 0.0628
## 3600 FAINT 31.6246 28.5951 27.7437 25.8916 25.2175 24.3237 0.8514 1.8521
## 3601 FAINT 28.3762 27.9908 26.4772 25.3714 24.3933 23.9108 1.5136 1.1058
## 3602 BRIGHT 26.8804 26.1671 25.2557 24.5725 23.9136 23.6754 0.9114 0.6832
## 3603 FAINT 30.3357 28.8568 26.8357 25.8092 24.8037 24.0664 2.0211 1.0265
## 3604 FAINT 28.5287 28.2745 27.6059 26.4168 26.3203 24.8008 0.6686 1.1891
## 3605 FAINT 27.4794 27.5342 26.6819 26.3471 26.0126 26.7735 0.8523 0.3348
## 3606 FAINT 33.2755 27.5150 26.7404 25.9139 25.2774 24.8151 0.7746 0.8265
## 3607 BRIGHT 27.0444 26.3310 25.0928 24.6821 24.3717 24.1772 1.2382 0.4107
```

Question 12

Are the mean and median values of `g-r` and `r-i` roughly the same for `BRIGHT` galaxies versus `FAINT` ones? Heck if I know. Use `dplyr` functions to attempt to answer this question.

```
pred.new.column %>% group_by(.,type) %>% summarize(.,Median=median(gr), Mean=mean(gr))
```

```
## # A tibble: 2 × 3
##   type      Median Mean
##   <fct>      <dbl> <dbl>
## 1 BRIGHT    0.872 0.942
## 2 FAINT     0.645 0.694
```

```
pred.new.column %>% group_by(.,type) %>% summarize(.,Median=median(ri), Mean=mean(ri))
```

```
## # A tibble: 2 × 3
##   type      Median Mean
##   <fct>      <dbl> <dbl>
## 1 BRIGHT    0.581 0.620
## 2 FAINT     0.523 0.558
```

Question 13

Actually, we cannot really answer the question posed in Q12 without some notion of uncertainty. So here, repeat Q12, but instead of displaying the mean and median for each group, display the standard error of the mean: the sample standard deviation divided by the square root of the number of values.

```
stderror <- function(x) sd(x)/sqrt(length(x))
```

```
pred.new.column %>% group_by(.,type) %>% summarize(.,Standard_error=stderror(gr) )
```

```
## # A tibble: 2 × 2
##   type      Standard_error
##   <fct>      <dbl>
## 1 BRIGHT    0.0131
## 2 FAINT     0.0112
```



```
pred.new.column %>% group_by(.,type) %>% summarize(.,Standard_error=stderror(ri) )
```

```
## # A tibble: 2 × 2
##   type    Standard_error
##   <fct>          <dbl>
## 1 BRIGHT      0.0100
## 2 FAINT       0.00797
```

The standard errors you observe should be \$0.01. While we won't run, e.g., a two-sample t-test here, it is pretty clear that the means of the colors are significantly different between groups.

Next time: visualization with `ggplot` !