
Basic Contest Statistics

<http://www.mathworks.com/matlabcentral/contest/>

```
fprintf('Published from file %s on %s\n',mfilename,datestr(now,1));
```

```
    Published from file basic_contest_stats on 03-Feb-2014
```

```
% These are all the contests in the correct chronological order
```

```
contestIdList = getAllContestIds;
```

```
query = 'SELECT ALL id,title FROM contests';
```

```
db = connectToContestDatabase;
```

```
names = queryDatabase(db, query);
```

```
close(db)
```

```
data = [];
```

```
for i = 1:length(contestIdList)
```

```
    d = getContestData(contestIdList(i));
```

```
    d = d([d.passed]);
```

```
    d = rankAtDebut(d);
```

```
    contestName = names{contestIdList(i),2};
```

```
    timeplot(d)
```

```
    title([contestName ' ' datestr(d(1).t,1)] );
```

```
    box on
```

```
    snapnow
```

```
    leaders = find([d.initial_rank]==1);
```

```
    len = length(d);
```

```
    fprintf('Name: %s\n', contestName)
```

```
    fprintf('Time of first entry: %s\n', datestr(d(1).t));
```

```
    fprintf('Time of last entry: %s\n', datestr(d(end).t));
```

```
    numAuthors = length(unique([d.author_id]));
```

```
    fprintf('Number of Players: %d\n',numAuthors);
```

```
    fprintf('Number of Entries: %d\n',len);
```

```
    fprintf('Entries per Player: %3.1f\n',len/numAuthors);
```

```
    fprintf('Number of Leading Entries: %d\n',length(leaders));
```

```
    numLeadingAuthors = length(unique([d(leaders).author_id]));
```

```
    fprintf('Number of Leading Players: %d\n',numLeadingAuthors);
```

```
    fprintf('Players per Leading Player: %3.1f\n',numAuthors/numLeadingAuthors);
```

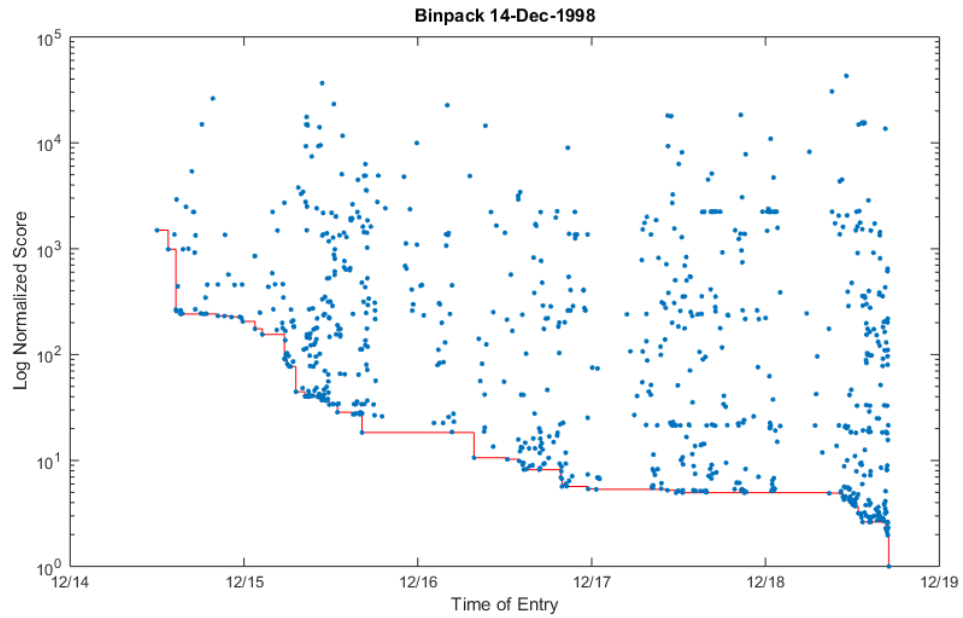
```
    fprintf('Leader Percentage: %3.1f%%\n',length(leaders)/len*100);
```

```
    num_passed = sum([d.passed]==1);
```

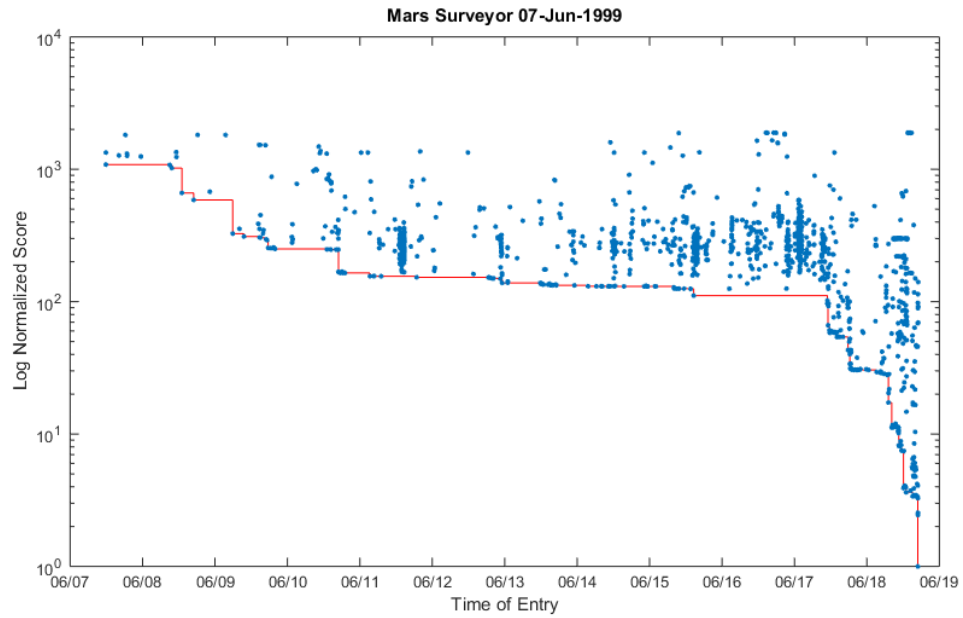
```
    fprintf('Passing Entries: %d\n',num_passed);
```

```
    fprintf('Passing Percentage: %3.1f%%\n',num_passed/len*100);
```

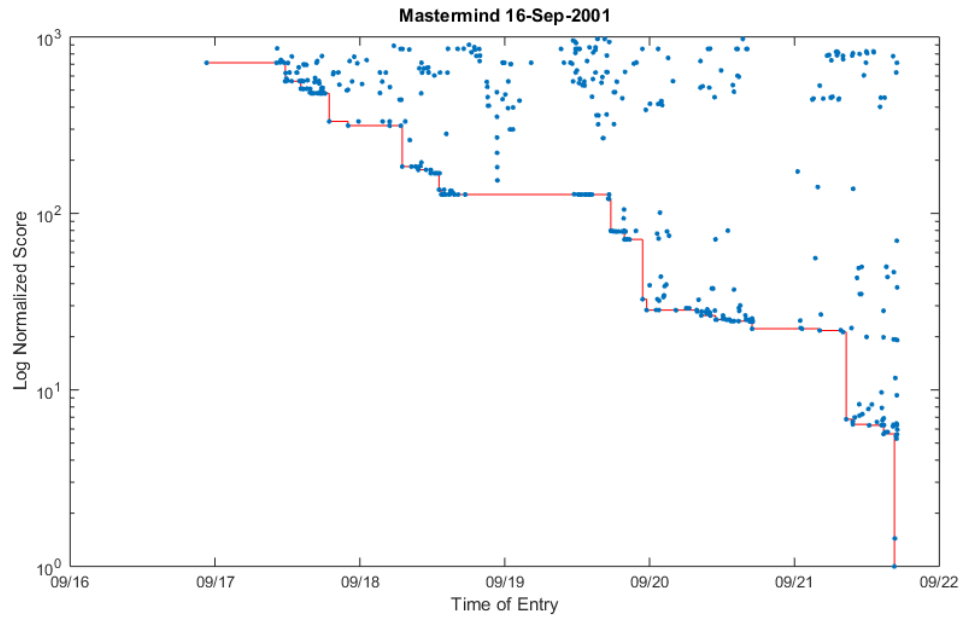
```
end
```



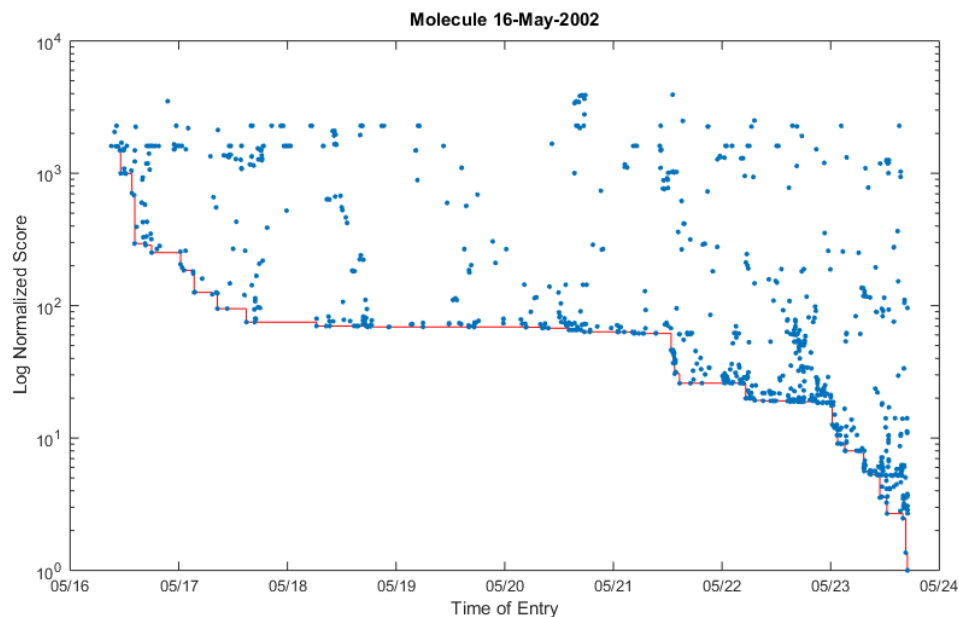
Name: Binpack
Time of first entry: 14-Dec-1998 12:00:00
Time of last entry: 18-Dec-1998 17:01:03
Number of Players: 112
Number of Entries: 877
Entries per Player: 7.8
Number of Leading Entries: 62
Number of Leading Players: 19
Players per Leading Player: 5.9
Leader Percentage: 7.1%
Passing Entries: 877
Passing Percentage: 100.0%



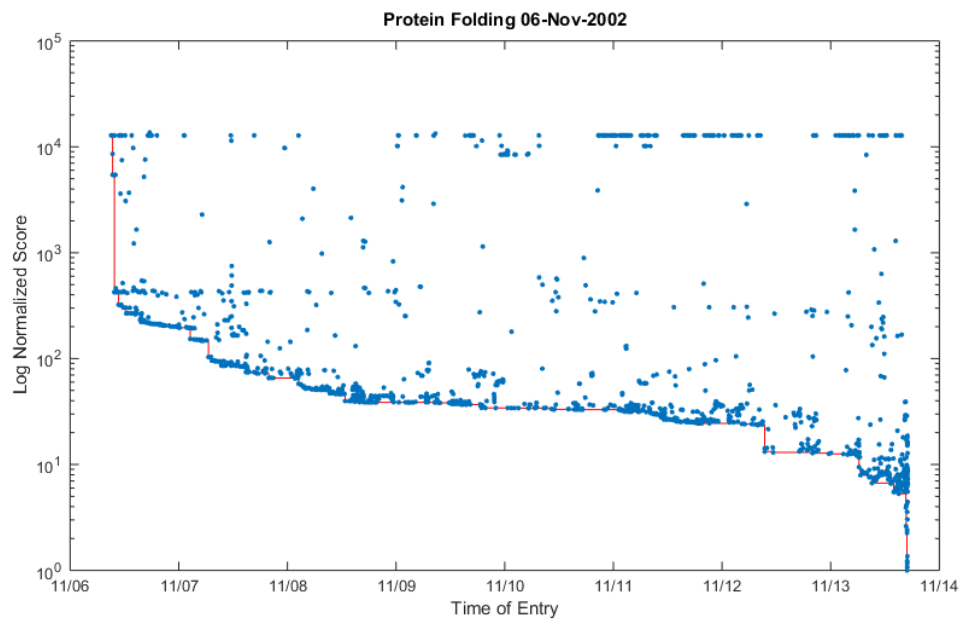
Name: Mars Surveyor
Time of first entry: 07-Jun-1999 11:51:37
Time of last entry: 18-Jun-1999 16:59:43
Number of Players: 56
Number of Entries: 1371
Entries per Player: 24.5
Number of Leading Entries: 86
Number of Leading Players: 17
Players per Leading Player: 3.3
Leader Percentage: 6.3%
Passing Entries: 1371
Passing Percentage: 100.0%



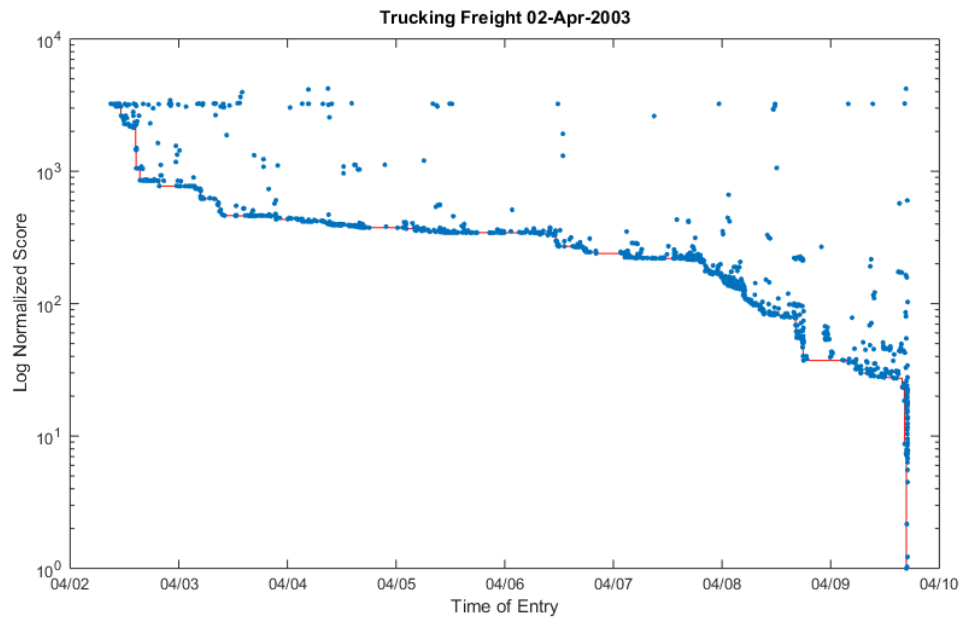
Name: Mastermind
Time of first entry: 16-Sep-2001 22:36:50
Time of last entry: 21-Sep-2001 17:00:47
Number of Players: 88
Number of Entries: 511
Entries per Player: 5.8
Number of Leading Entries: 50
Number of Leading Players: 19
Players per Leading Player: 4.6
Leader Percentage: 9.8%
Passing Entries: 511
Passing Percentage: 100.0%



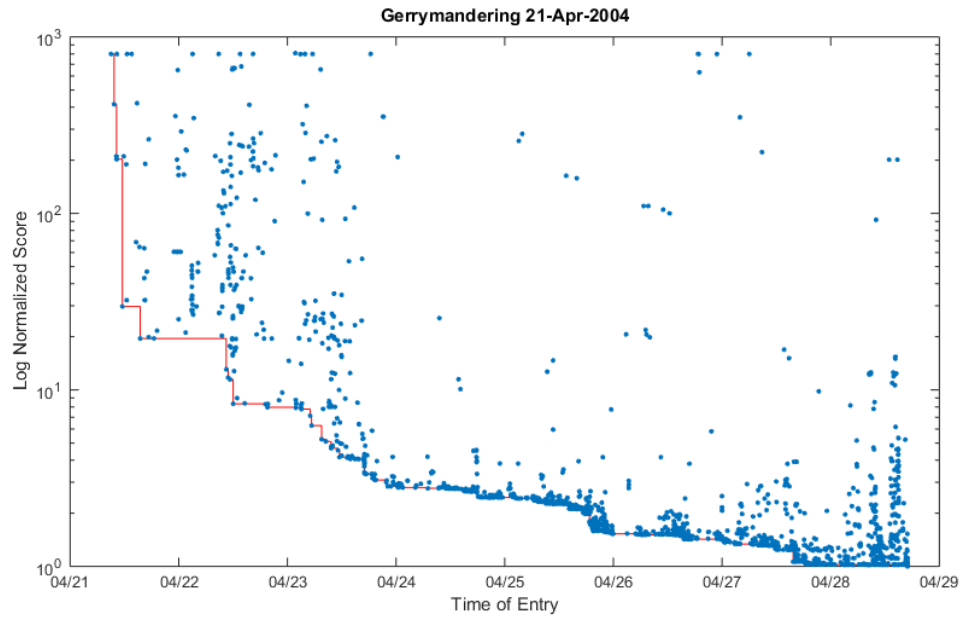
Name: Molecule
Time of first entry: 16-May-2002 09:06:38
Time of last entry: 23-May-2002 16:59:58
Number of Players: 124
Number of Entries: 977
Entries per Player: 7.9
Number of Leading Entries: 80
Number of Leading Players: 21
Players per Leading Player: 5.9
Leader Percentage: 8.2%
Passing Entries: 977
Passing Percentage: 100.0%



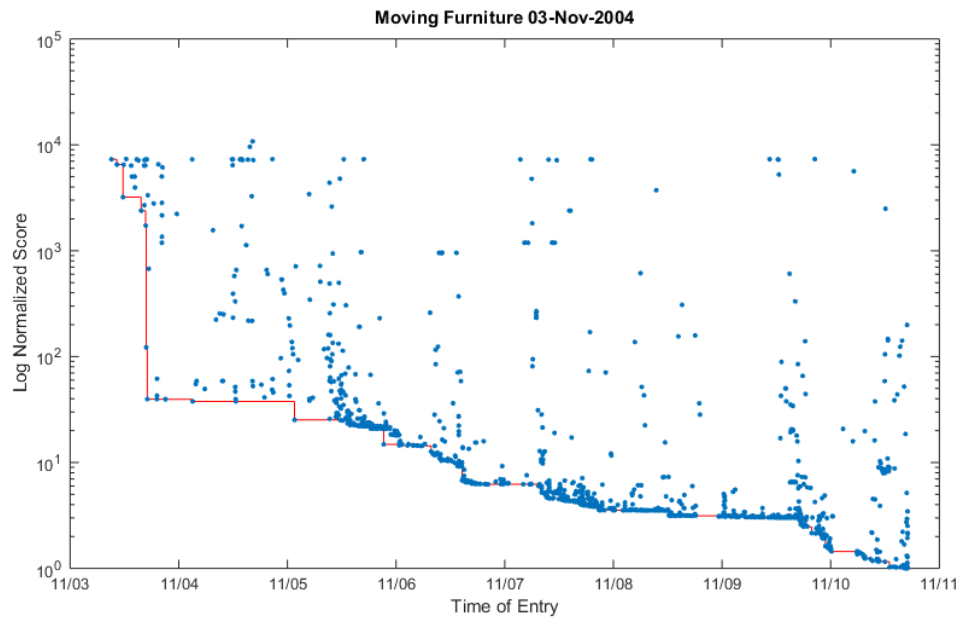
Name: Protein Folding
Time of first entry: 06-Nov-2002 09:02:04
Time of last entry: 13-Nov-2002 17:00:21
Number of Players: 181
Number of Entries: 1881
Entries per Player: 10.4
Number of Leading Entries: 198
Number of Leading Players: 37
Players per Leading Player: 4.9
Leader Percentage: 10.5%
Passing Entries: 1881
Passing Percentage: 100.0%



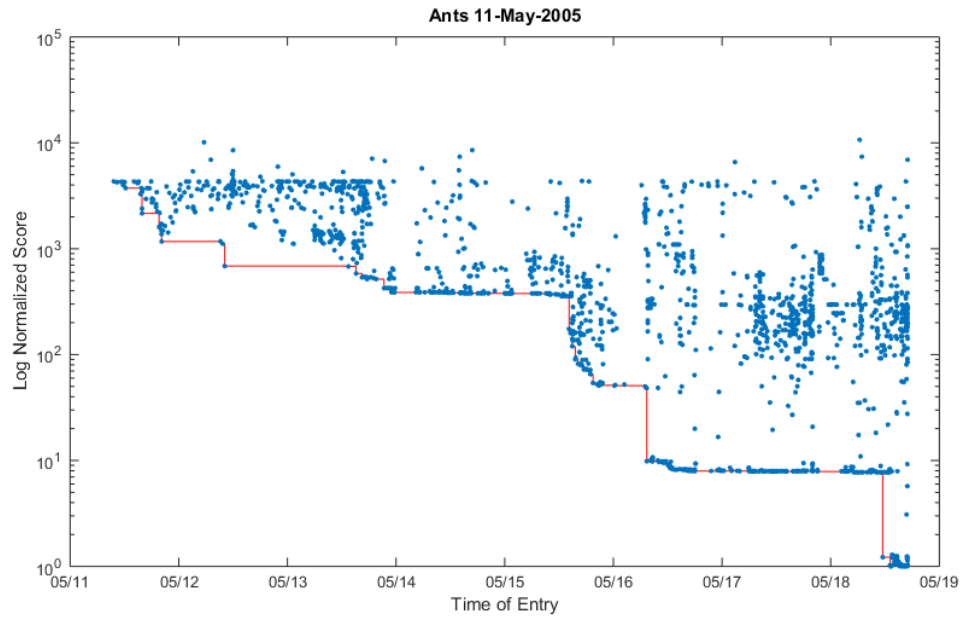
Name: Trucking Freight
Time of first entry: 02-Apr-2003 09:00:07
Time of last entry: 09-Apr-2003 17:03:30
Number of Players: 111
Number of Entries: 1363
Entries per Player: 12.3
Number of Leading Entries: 231
Number of Leading Players: 44
Players per Leading Player: 2.5
Leader Percentage: 16.9%
Passing Entries: 1363
Passing Percentage: 100.0%



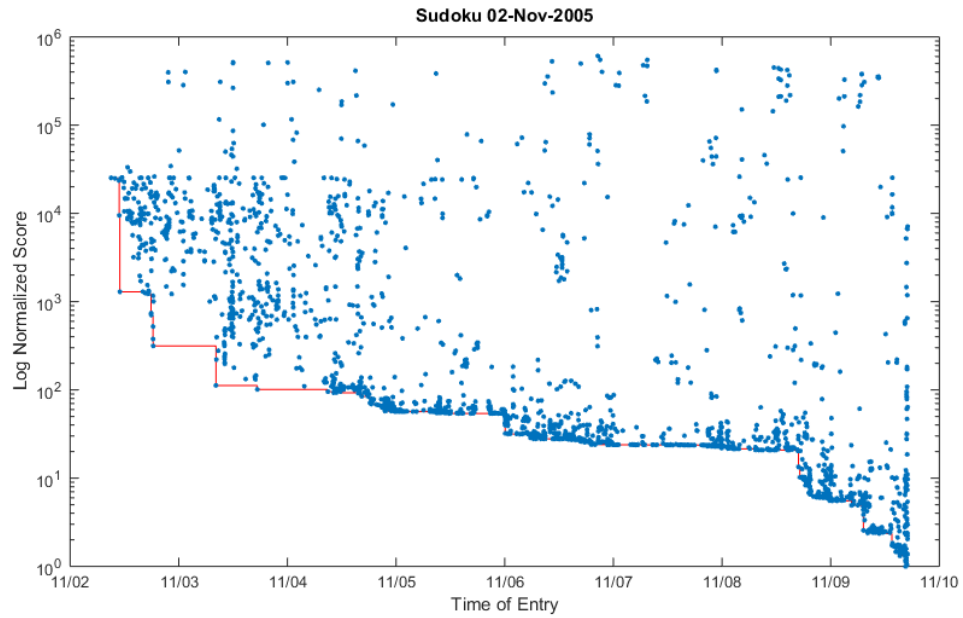
Name: Gerrymandering
Time of first entry: 21-Apr-2004 09:01:57
Time of last entry: 28-Apr-2004 17:00:00
Number of Players: 152
Number of Entries: 2038
Entries per Player: 13.4
Number of Leading Entries: 200
Number of Leading Players: 48
Players per Leading Player: 3.2
Leader Percentage: 9.8%
Passing Entries: 2038
Passing Percentage: 100.0%



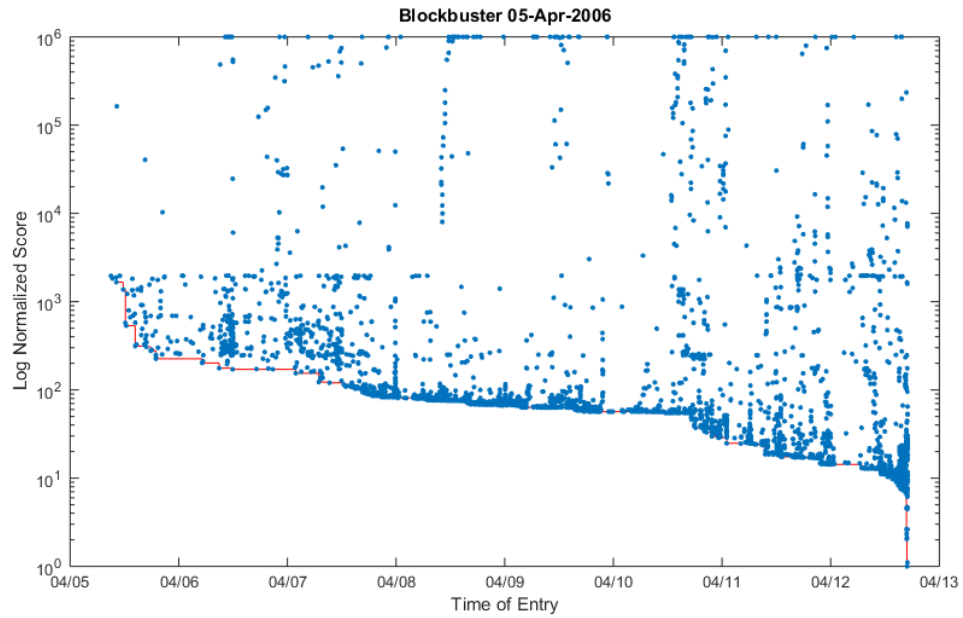
Name: Moving Furniture
Time of first entry: 03-Nov-2004 09:07:32
Time of last entry: 10-Nov-2004 16:59:50
Number of Players: 86
Number of Entries: 1270
Entries per Player: 14.8
Number of Leading Entries: 175
Number of Leading Players: 29
Players per Leading Player: 3.0
Leader Percentage: 13.8%
Passing Entries: 1270
Passing Percentage: 100.0%



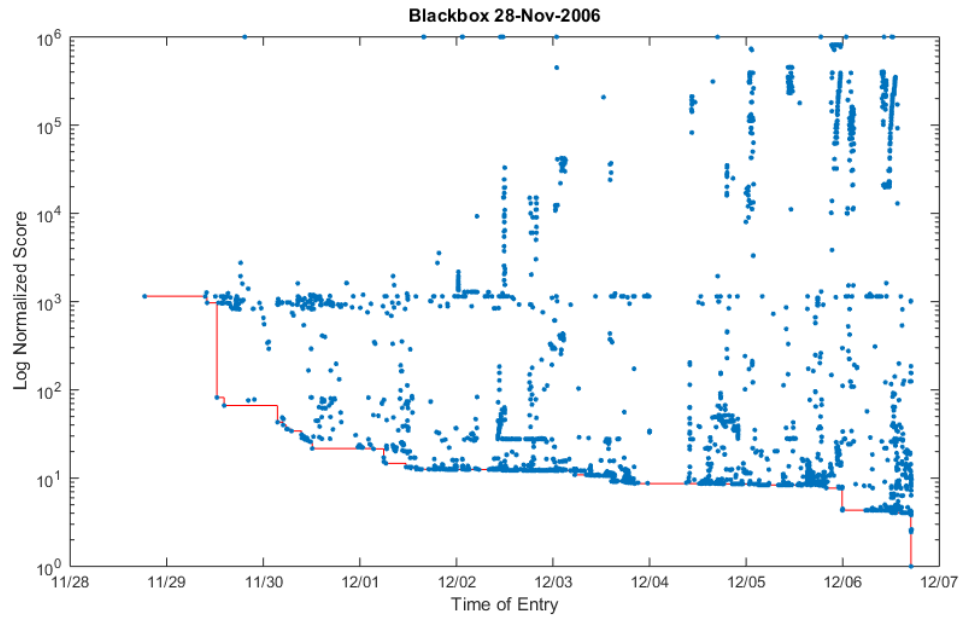
Name: Ants
Time of first entry: 11-May-2005 09:39:33
Time of last entry: 18-May-2005 17:00:01
Number of Players: 154
Number of Entries: 1972
Entries per Player: 12.8
Number of Leading Entries: 91
Number of Leading Players: 19
Players per Leading Player: 8.1
Leader Percentage: 4.6%
Passing Entries: 1972
Passing Percentage: 100.0%



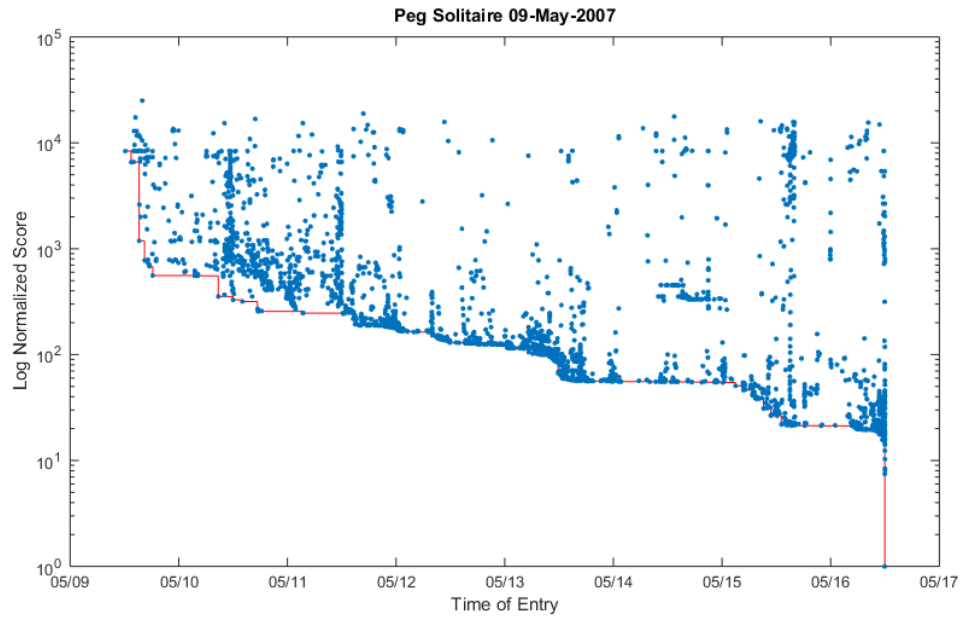
Name: Sudoku
Time of first entry: 02-Nov-2005 09:02:40
Time of last entry: 09-Nov-2005 16:59:51
Number of Players: 170
Number of Entries: 2439
Entries per Player: 14.3
Number of Leading Entries: 143
Number of Leading Players: 32
Players per Leading Player: 5.3
Leader Percentage: 5.9%
Passing Entries: 2439
Passing Percentage: 100.0%



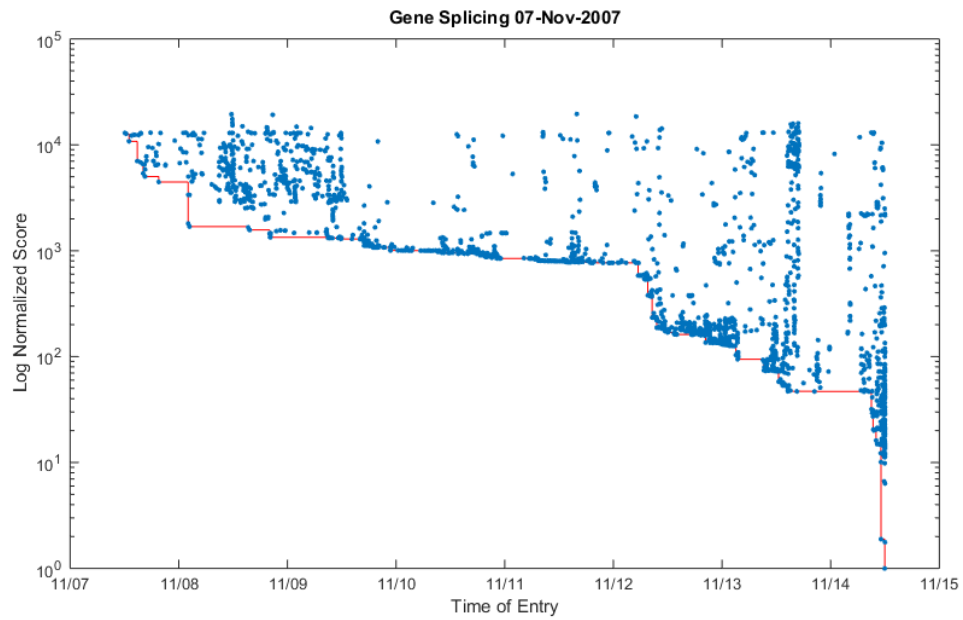
Name: Blockbuster
Time of first entry: 05-Apr-2006 09:01:16
Time of last entry: 12-Apr-2006 17:00:01
Number of Players: 170
Number of Entries: 5150
Entries per Player: 30.3
Number of Leading Entries: 207
Number of Leading Players: 43
Players per Leading Player: 4.0
Leader Percentage: 4.0%
Passing Entries: 5150
Passing Percentage: 100.0%



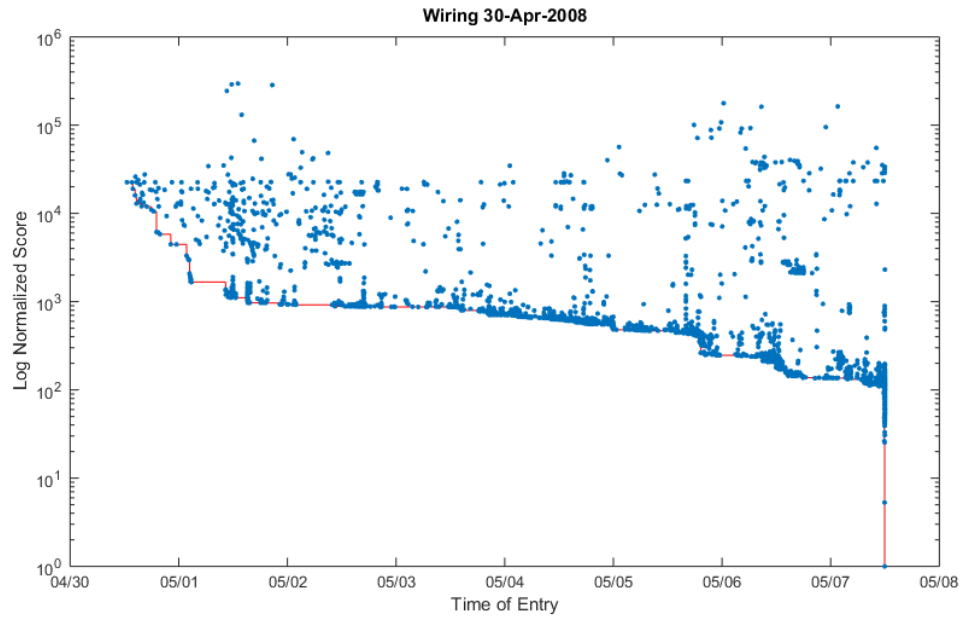
Name: Blackbox
Time of first entry: 28-Nov-2006 18:31:48
Time of last entry: 06-Dec-2006 17:06:32
Number of Players: 143
Number of Entries: 4600
Entries per Player: 32.2
Number of Leading Entries: 77
Number of Leading Players: 23
Players per Leading Player: 6.2
Leader Percentage: 1.7%
Passing Entries: 4600
Passing Percentage: 100.0%



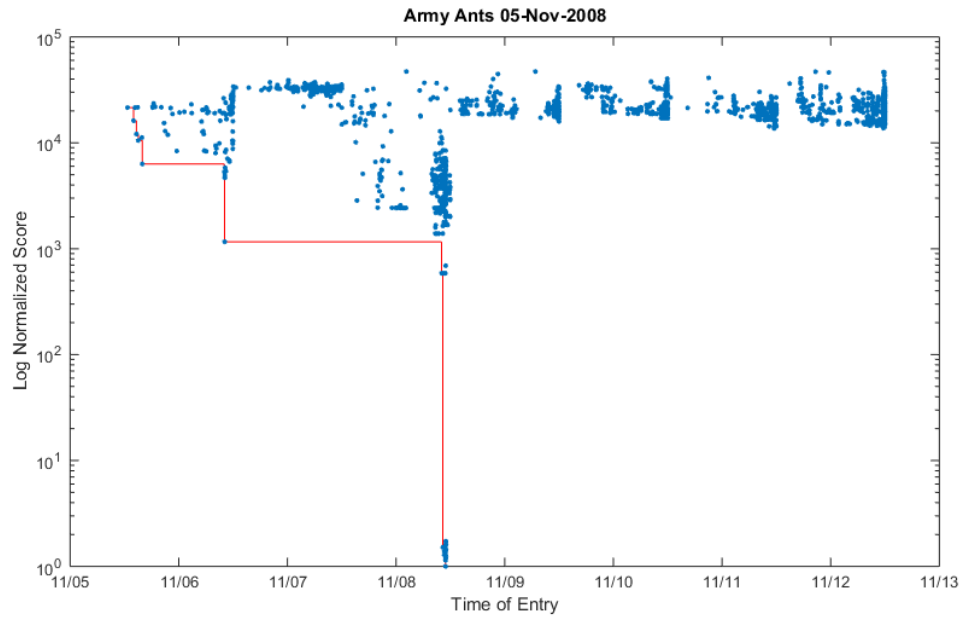
Name: Peg Solitaire
Time of first entry: 09-May-2007 12:11:29
Time of last entry: 16-May-2007 11:59:58
Number of Players: 113
Number of Entries: 3426
Entries per Player: 30.3
Number of Leading Entries: 179
Number of Leading Players: 27
Players per Leading Player: 4.2
Leader Percentage: 5.2%
Passing Entries: 3426
Passing Percentage: 100.0%



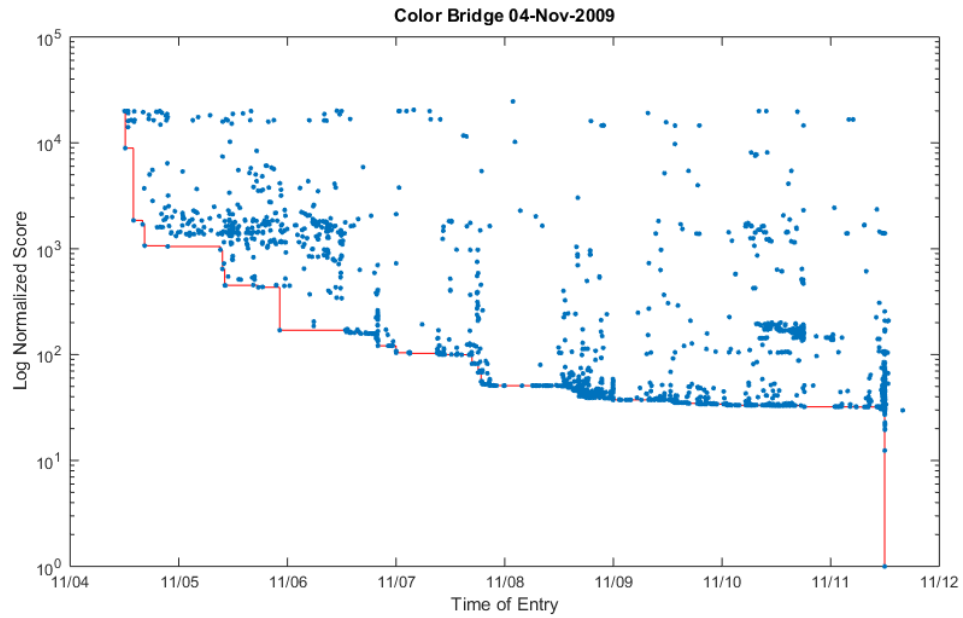
Name: Gene Splicing
Time of first entry: 07-Nov-2007 12:05:35
Time of last entry: 14-Nov-2007 11:59:55
Number of Players: 127
Number of Entries: 2687
Entries per Player: 21.2
Number of Leading Entries: 178
Number of Leading Players: 27
Players per Leading Player: 4.7
Leader Percentage: 6.6%
Passing Entries: 2687
Passing Percentage: 100.0%



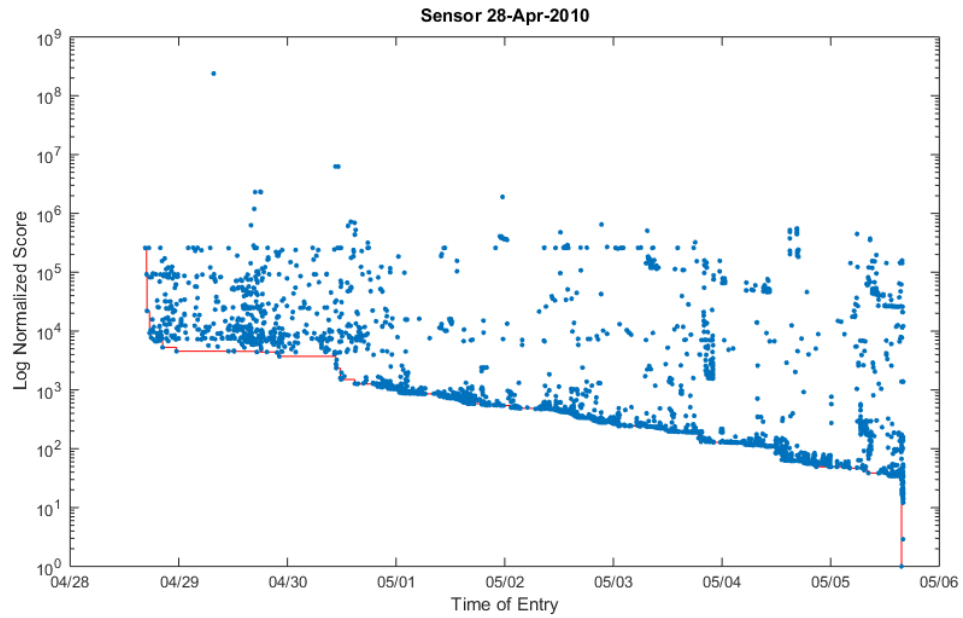
Name: Wiring
Time of first entry: 30-Apr-2008 12:33:04
Time of last entry: 07-May-2008 11:59:59
Number of Players: 99
Number of Entries: 3707
Entries per Player: 37.4
Number of Leading Entries: 201
Number of Leading Players: 26
Players per Leading Player: 3.8
Leader Percentage: 5.4%
Passing Entries: 3707
Passing Percentage: 100.0%



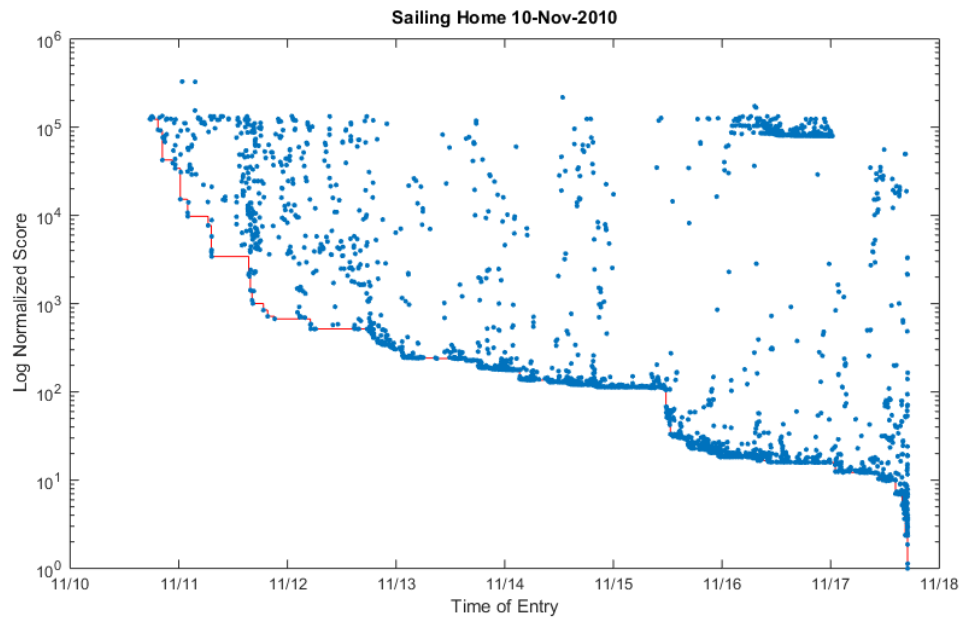
Name: Army Ants
Time of first entry: 05-Nov-2008 12:40:28
Time of last entry: 12-Nov-2008 12:00:00
Number of Players: 60
Number of Entries: 2128
Entries per Player: 35.5
Number of Leading Entries: 14
Number of Leading Players: 7
Players per Leading Player: 8.6
Leader Percentage: 0.7%
Passing Entries: 2128
Passing Percentage: 100.0%



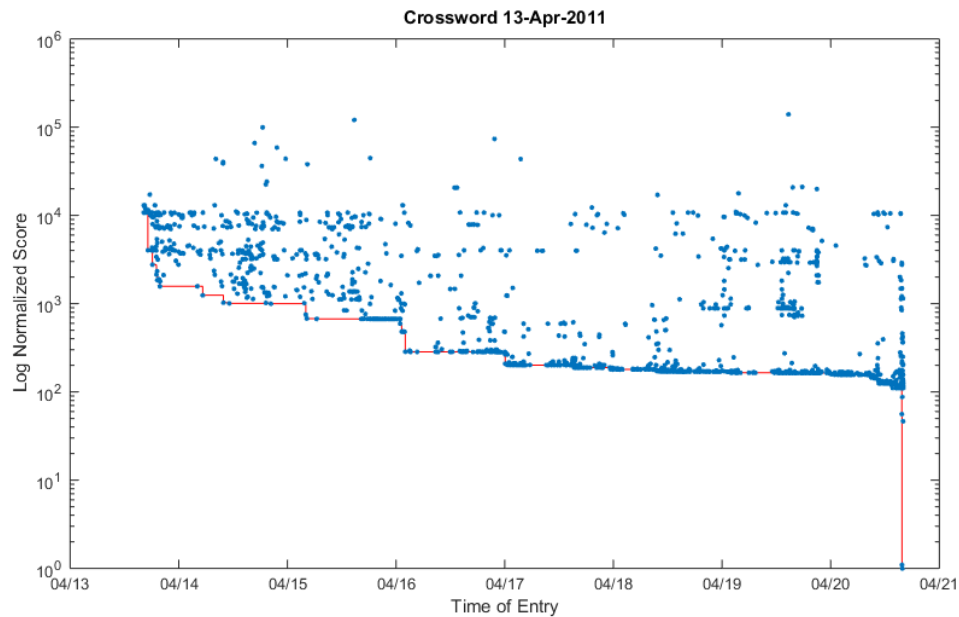
Name: Color Bridge
Time of first entry: 04-Nov-2009 12:01:01
Time of last entry: 11-Nov-2009 15:54:35
Number of Players: 103
Number of Entries: 2270
Entries per Player: 22.0
Number of Leading Entries: 121
Number of Leading Players: 19
Players per Leading Player: 5.4
Leader Percentage: 5.3%
Passing Entries: 2270
Passing Percentage: 100.0%



Name: Sensor
Time of first entry: 28-Apr-2010 16:35:00
Time of last entry: 05-May-2010 16:00:00
Number of Players: 179
Number of Entries: 4232
Entries per Player: 23.6
Number of Leading Entries: 279
Number of Leading Players: 22
Players per Leading Player: 8.1
Leader Percentage: 6.6%
Passing Entries: 4232
Passing Percentage: 100.0%



Name: Sailing Home
Time of first entry: 10-Nov-2010 17:37:41
Time of last entry: 17-Nov-2010 17:01:28
Number of Players: 95
Number of Entries: 3175
Entries per Player: 33.4
Number of Leading Entries: 244
Number of Leading Players: 33
Players per Leading Player: 2.9
Leader Percentage: 7.7%
Passing Entries: 3175
Passing Percentage: 100.0%



Name: Crossword
Time of first entry: 13-Apr-2011 16:13:41
Time of last entry: 20-Apr-2011 15:59:45
Number of Players: 90
Number of Entries: 1847
Entries per Player: 20.5
Number of Leading Entries: 88
Number of Leading Players: 21
Players per Leading Player: 4.3
Leader Percentage: 4.8%
Passing Entries: 1847
Passing Percentage: 100.0%

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