

Nature Language Processing

Term Project Report

YIXUN WANG

TOPIC: Information Extraction on NBA Scores Reports

Data Corpus: Yahoo Sports -> NBA -> Scores Reports

Programming Language: JAVA

External Library: JET

Source Code: NLP/src/nlp/sportsextraction/Main.java
NLP/src/nlp/sportsextraction/ReadingFile.java
NLP-Measure/src/Measure.java

JET Files: [Make sure Jet.dataPath in *.jet file is set correctly]
jet/props/nbaScores.jet
jet/props/point.jet
jet/data/chunkPatternsSP.txt
jet/data/scoresPatterns.txt
jet/data/sportConcepts.hrc
jet/data/pointsPatterns.txt
jet/data/scoreConcepts.hrc

Input Data and Formation:

The Data corpus were extracted from Yahoo Sports by hand. There are 57 individual news reports as a whole and most of which contains more than 400 words or 1700 characters on average, that is, for each article it contains the whole report it self, not only a part. However I exclude the report's title, or else I can play a cheat on it since a title usually reflects most of information that I need.

Here is a sample input of two news:

```
<TEXT>
The content of the first NBA report is here.
</TEXT>
<TEXT>
The content of another NBA report is here.
</TEXT>
```

Training Patterns:

I use six tenth of the total data corpus to train my events patterns and then place a test on the whole 57 news reports.

There are three major training targets of this project:

1) to get the HOME COURT

Luckily enough, I found Yahoo Sports always put the game location at the very beginning, and I can simply extract the rough location information over there and analysis it by comparing it with my database. However, In case of no such a convenience, I would also first get a set of possible location by using location-Pattern, second compare such locations with what I get from TEAM and SCORES Pattern. The TEAM information must be linked with the wanted location so that it's possible to get it correctly.

2) to get the TEAM and SCORES

This is one of the main purpose of my project, and there are three kind of informations I need to obtain: WIN-TEAM, LOSE-TEAM and SCORES since these informations are almost always show up together, such as:

“TEAM-A win/beat TEAM-B with SCORES xxx-xxx”

or

“TEAM-A give TEAM-B a loss with SCORES xxx-xxx”

However there are also many more complexed combinations which requires a more careful Pattern construction:

“TEAM-A champions to a SCORES xxx-xxx victory over TEAM-B”

or

“TEAM-A went into the All-Star break with their fourth victory in five games, pounding the TEAM-B SCORES xxx-xxx”

One can define numerous patterns to cover most combinations, my way to break through this question, on the other hand, is that by:

first locating the key cWIN words like WIN or VICTORY

then finding out the corresponding TEAM tag either on both sides or on the same side,

and finally take the struct of sentence into consideration.

I can somehow predict TEAMS and SCOREs correctly and efficiently.

My pattern file will be attached to the end of this report.

3) *to get the **PLAYER WITH HIGHEST POINTS***

This is trying to get the possible highest POINTS in a given game, and the corresponding PLAYER. Again, there are numbers of different ways of saying:

“PLAYER scored xx POINTS”

For instance, we can say:

“PLAYER was the leading scorer with xx POINTS.”

or

“PLAYER scored xx of his season-high xx POINTS.”

This time I’m trying to cover these situations carefully and totally with various of patterns.

What do I do with my JAVA code

- 1) Parsing the text into a set of sentences and store them in proper data structure. This allows me to eliminate sentences that doesn’t contains any KEY word like TEAM name or the concept of WIN and LOSE. Notice that, I can not simple separate the whole context by period, because there are names like “D.J. Augustin” also contains “.” which requires additional processing.
- 2) Applying JET Pattern Matching on each sentence. There are two kind of Patterns, one for finding out TEAMS and SCORES, the other is for searching a PLAYER and his HIGHEST POINTS. Usually this step will generate a lot of redundant values that leaves to me for further processing.
- 3) Filter redundant informations. for instance, I can make a use of pre-acquired LOCATION to help me choosing the patterns that contains the right TEAMS and SCORES, or I can use my database to eliminate a ENAMEX that doesn’t belong to a Person but belong to a TEAM or a LOCATION when I dealing with PLAYER and POINTS information.
- 4) Measure the output and get the Precision & Recall. The standard output of extraction as well as my hand-made evaluation are listed to the end of the report. Each article contains 6 points of informations[LOCATION, WIN-TEAM, LOSE-TEAM, SCORES, PLAYER, POINTS]

so that there are $57 \times 6 = 342$ pieces of informations need to be check. The measurement including a totally Precision and Recall, and for each of the three extraction targets, I also calculated their corresponding Precision and Recall values. Here is the final results:

Final results:

HOME COURT:

Precision = 1.0

Recall = 1.0

WIN TEAM, LOSE TEAM and SCORES:

Precision = 0.9940476190476191

Recall = 0.9766081871345029

PLAYER WITH HIGHEST POINTS:

Precision = 0.8807339449541285

Recall = 0.8495575221238938

OVER ALL MEASURE:

Precision = 0.9579579579579579

Recall = 0.9382352941176471

=====

JET PATTERN

pointsPatterns.txt

//

// Patterns for sport event - point

//

pattern set point;

point := socres-3 | socres-2 | socres-1 | scores0 | scores1 |
scores2 | scores3 | scores4 | scores5 | scores6 | scores7;

socres-3 := [ENAMEX]:Person ([constit cat=v pa=[head?isa(cScore)]] |
[constit cat=vgroup pa=[head?isa(cScore)]] |
[constit cat=q]:Scores ",");

socres-2 := [ENAMEX]:Person ([constit cat=v pa=[head?isa(cScore)]] |
[constit cat=vgroup pa=[head?isa(cScore)]] |
[constit cat=q]:Scores
([constit cat=ngroup pa=[head=point number=plural]] |
[constit cat=ngroup pa=[head=apiece]]) ("," | "and");

socres-1 := [ENAMEX]:Person ([constit cat=v pa=[head?isa(cScore)]] |

```

[constit cat=vgroup pa=[head?isa(cScore)])]
("a" | "his") pre-score ("of" | "with")?
[constit cat=q]:Scores
([constit cat=ngroup pa=[head=point number=plural]] |
[constit cat=ngroup pa=[head=apiece]]);

scores0      := ([ENAMEX]|[constit cat=ngroup] | "Harden"):Person
               ([constit cat=v pa=[head?isa(cScore)]] | [constit cat=vgroup
pa=[head?isa(cScore)])]
               | [constit cat=ven pa=[head?isa(cScore)])]
               [constit cat=q]:Scores ([constit cat=ngroup pa=[head=point
number=plural]] |
               [constit cat=ngroup pa=[head=apiece]]);

scores1      := ([ENAMEX]|[constit cat=ngroup] | "Harden"):Person
               ([constit cat=v pa=[head?isa(cScore)]] | [constit cat=vgroup
pa=[head?isa(cScore)])]
               "with"? ("a" | "his")? pre-score? ("of" | "with")?
               [constit cat=q]:Scores ([constit cat=ngroup pa=[head=point
number=plural]] |
               [constit cat=ngroup pa=[head=apiece]]);

//Brian Roberts was the leading scorer with 18 points on Monday.
scores2      := ([ENAMEX]|[constit cat=ngroup]):Person [tagger]* ([constit cat=ngroup
pa=[head?isa(cScoreNoun)]] |
               [constit cat=n pa=[head?isa(cScoreNoun)])] "with"
               [constit cat=q]:Scores [constit cat=ngroup pa=[head=point
number=plural]]);

//Gerald Henderson put in 17.
scores3      := ([ENAMEX]|[constit cat=ngroup]):Person "put" "in" ("a" | "his")? pre-score?
"of"? [constit cat=q]:Scores
               ([constit cat=ngroup pa=[head=point number=plural]] |
               [constit cat=ngroup pa=[head=apiece]])?;

//Bradley Beal led Washington with 18 points
scores4      := ([ENAMEX]|[constit cat=ngroup]):Person "also"? mid?
               ([constit cat=vgroup pa=[head?isa(cScore)]] | [constit cat=ven
pa=[head?isa(cScore)])] |
               [constit cat=v pa=[head?isa(cScore)])]
               [constit cat=ngroup]* "with" "a"? pre-score?
               [constit cat=q]:Scores [constit cat=ngroup pa=[head=point
number=plural]]);

//Damian Lillard, who had 25 points
scores5      := ([ENAMEX]|[constit cat=ngroup]):Person ", "? "who"
               ([constit cat=v pa=[head?isa(cScore)]] | [constit cat=vgroup
pa=[head?isa(cScore)])]
               "with"? ("a" | "his")? pre-score?

```

```

[constit cat=q]:Scores ([constit cat=ngroup pa=[head=point
number=plural]] |
[constit cat=ngroup pa=[head=apiece]]);

//Barea scored 15 of his season-high 22 points
scores6      := ([ENAMEX]|[constit cat=ngroup]):Person [tagger]*
               ([constit cat=v pa=[head?isa(cScore)]] | [constit cat=vgroup
pa=[head?isa(cScore)]]])
               [constit cat=q] "of" [tagger]* pre-score? [constit cat=q]:Scores
               ([constit cat=ngroup pa=[head=point number=plural]] |
               [constit cat=ngroup pa=[head=apiece]]);

//Luol Deng made 11 of 14 shots and scored 29 points

scores7      := ([ENAMEX]|[constit cat=ngroup]):Person "made"
               [constit cat=q] "of" [constit cat=q] "shots" "and"?
               ([constit cat=v pa=[head?isa(cScore)]] | [constit cat=vgroup
pa=[head?isa(cScore)]]])
               [constit cat=q]:Scores
               ([constit cat=ngroup pa=[head=point number=plural]] |
               [constit cat=ngroup pa=[head=apiece]]);

pre-score    := "career" "-" "high" | "season" "-" "high" | "season" "highs" | "career" "highs"
               | "season" "-" "highs" | "career" "-" "highs";

mid          := "," [tagger]+ ",";

//when point      write "Person: " + Person + " Scores: " + Scores;
when point      add [constit cat=pointevent player=Person points=Scores];

=====

```

JET PATTERN

scoresPatterns.txt

```

//
// Patterns for sport event
//

pattern set score;

score          := win;

// pattern for win: <TEAM-A> win <TEAM-B>

```

win := win-noun | win-noun2 | win-verb | lose-noun | lose-noun2 | lose-noun3;

// TEAM-A cWinNoun TEAM-B

win-noun := (teams):Winteam [tagger]*
 ([constit cat=n pa=[head?isa(cWinNoun)]] |
 [constit cat=ngroup pa=[head?isa(cWinNoun)]] |
 "victory" | "demolition" | "beating" | "sweep" | "rout") [tagger]*
 (teams):Loseteam;

win-noun2 := (teams):Winteam [tagger]* (teams):Loseteam [tagger]*
 ([constit cat=n pa=[head?isa(cWinNoun)]] |
 [constit cat=ngroup pa=[head?isa(cWinNoun)]] |
 "victory" | "demolition" | "beating" | "sweep" | "rout");

// TEAM-A cWin TEAM-B

win-verb := (teams):Winteam [tagger]*
 ([constit cat=v pa=[head?isa(cWin)]] | [constit cat=vgroup
pa=[head?isa(cWin)]]
 | [constit cat=ven pa=[head?isa(cWin)]]]
 [tagger]* "the"? (teams):Loseteam;

// lead TEAM-A to a cWinNoun over TEAM-B

teams := "76ers" | "Clippers" | "Portland" | "Kings" | "Hornets" | "Rockets" | "Bucks" |
"Denver" | "Atlanta" | "Boston" | "Brooklyn" | "New York" | "Philadelphia" | "Toronto" | "Chicago" |
"Cleveland" | "Detroit" | "Indiana" | "Milwaukee" | "Charlotte" | "Miami" | "Orlando" | "Washington"
| "Minnesota" | "Oklahoma" | "State" | "Orleans" | "Utah" | "Los Angeles Lakers" | "Phoenix" |
"Sacramento" | "Houston" | "Memphis" | "Dallas" | "San Antonio" | "New Orleans" | "Golden
State" | "OKC" | "POR" | "York" | "Celtics" | "Nets" | "Knicks" | "Cavaliers" | "Pistons" | "Pacers" |
"Heats" | "Hawks" | "Raptors" | "Wizards" | "Nuggets" | "Timberwolves" | "Blazers" | "Jazz" |
"Warriors" | "Thunder" | "Bulls" | "Lakers" | "Suns" | "Grizzlies" | "Mavericks" | "Spurs" |
"Pelicans" | "Bobcats" | "Sixers" | "Heat" | "Magic" | "Antonio";

when teams add [constit cat=ateam];

lose-noun := (teams):Winteam [tagger]* (teams):Loseteam [tagger]*
 ([constit cat=ngroup pa=[head?isa(cLoseNoun)]] |
 [constit cat=n pa=[head?isa(cLoseNoun)]] |
 [constit cat=vgroup pa=[head?isa(cLose)]] | "loss");

lose-noun2 := (teams):Loseteam [tagger]* (teams):Winteam
 [constit cat=ngroup pa=[head?isa(cWinNoun)]];

lose-noun3 := (teams):Loseteam [tagger]*
 ([constit cat=ngroup pa=[head?isa(cLoseNoun)]] |
 [constit cat=n pa=[head?isa(cLoseNoun)]] |
 [constit cat=vgroup pa=[head?isa(cLose)]] | "loss")

"to"? "the"? (teams):Winteam;

```
//when score write "winteam: " + Winteam + " loseteam: " + Loseteam;  
when score add      [constit cat=sportevent winteam=Winteam loseteam=Loseteam];
```

=====

OUTPUT OF EXTRACTION

Extraction of Paragraph 1

HOME COURT: Cleveland Cavaliers

WIN TEAM: Cleveland LOSE TEAM: 76ers SCORE: 97-84

PLAYER WITH HIGHEST POINTS: Kyrie Irving SCORED 24 POINTS

Extraction of Paragraph 2

HOME COURT: Washington Wizards

WIN TEAM: Charlotte LOSE TEAM: Wizards SCORE: 92-88

PLAYER WITH HIGHEST POINTS: Cody Zeller SCORED 21 POINTS

Extraction of Paragraph 3

HOME COURT: New York Knicks

WIN TEAM: Nets LOSE TEAM: Clippers SCORE: 102-100

PLAYER WITH HIGHEST POINTS: Brook Lopez SCORED 24 POINTS

Extraction of Paragraph 4

HOME COURT: Detroit Pistons

WIN TEAM: Pistons LOSE TEAM: Heat SCORE: 108-91

PLAYER WITH HIGHEST POINTS: Chris Bosh SCORED 34 POINTS

Extraction of Paragraph 5

HOME COURT: Portland Trail Blazers

WIN TEAM: Portland LOSE TEAM: Jazz SCORE: 103-102

PLAYER WITH HIGHEST POINTS: Hayward SCORED 27 POINTS

Extraction of Paragraph 6

HOME COURT: Sacramento Kings

WIN TEAM: Warriors LOSE TEAM: Kings SCORE: 121-96

PLAYER WITH HIGHEST POINTS: DeMarcus Cousins SCORED 26 POINTS

Extraction of Paragraph 7

HOME COURT: Los Angeles Clippers

WIN TEAM: Denver LOSE TEAM: Nuggets SCORE: 106-96

PLAYER WITH HIGHEST POINTS: Ty Lawson SCORED 32 POINTS

Extraction of Paragraph 8

HOME COURT: Phoenix Suns

WIN TEAM: Rockets LOSE TEAM: Suns SCORE: 127-118

PLAYER WITH HIGHEST POINTS: Eric Bledsoe SCORED 32 POINTS

Extraction of Paragraph 9

HOME COURT: Charlotte Bobcats

WIN TEAM: Detroit LOSE TEAM: Hornets SCORE: 106-78

PLAYER WITH HIGHEST POINTS: Monroe SCORED 23 POINTS

Extraction of Paragraph 10

HOME COURT: Atlanta Hawks

WIN TEAM: Toronto LOSE TEAM: Hawks SCORE: 105-80

PLAYER WITH HIGHEST POINTS: Lou Williams SCORED 26 POINTS

Extraction of Paragraph 11

HOME COURT: Orlando Magic

WIN TEAM: Magic LOSE TEAM: Pelicans SCORE: 95-84

PLAYER WITH HIGHEST POINTS: Victor Oladipo SCORED 22 POINTS

Extraction of Paragraph 12

HOME COURT: Milwaukee Bucks

WIN TEAM: Bucks LOSE TEAM: Denver SCORE: 89-81

PLAYER WITH HIGHEST POINTS: Wilson Chandler SCORED 19 POINTS

Extraction of Paragraph 13

HOME COURT: Sacramento Kings

WIN TEAM: Spurs LOSE TEAM: Kings SCORE: 107-96

PLAYER WITH HIGHEST POINTS: McLemore SCORED 21 POINTS

Extraction of Paragraph 14

HOME COURT: Portland Trail Blazers

WIN TEAM: Portland LOSE TEAM: Thunder SCORE: 115-112

PLAYER WITH HIGHEST POINTS: Westbrook SCORED 39 POINTS

Extraction of Paragraph 15

HOME COURT: Chicago Bulls

WIN TEAM: Chicago LOSE TEAM: Timberwolves SCORE: 96-89

PLAYER WITH HIGHEST POINTS: Jimmy Butler SCORED 28 POINTS

Extraction of Paragraph 16

HOME COURT: Detroit Pistons

WIN TEAM: York LOSE TEAM: Detroit SCORE: 121-115

PLAYER WITH HIGHEST POINTS: Monroe SCORED 28 POINTS

Extraction of Paragraph 17

HOME COURT: Houston Rockets

WIN TEAM: Houston LOSE TEAM: Nets SCORE: 102-98
PLAYER WITH HIGHEST POINTS: Jones SCORED 26 POINTS

Extraction of Paragraph 18

HOME COURT: Chicago Bulls

WIN TEAM: Charlotte LOSE TEAM: Chicago SCORE: 98-86

PLAYER WITH HIGHEST POINTS: Gasol SCORED 25 POINTS

Extraction of Paragraph 19

HOME COURT: Orlando Magic

WIN TEAM: Heat LOSE TEAM: Magic SCORE: 93-90

PLAYER WITH HIGHEST POINTS: Luol Deng SCORED 21 POINTS

Extraction of Paragraph 20

HOME COURT: Atlanta Hawks

WIN TEAM: Hawks LOSE TEAM: Mavericks SCORE: 104-87

PLAYER WITH HIGHEST POINTS: Monta Ellis SCORED 19 POINTS

Extraction of Paragraph 21

HOME COURT: Boston Celtics

WIN TEAM: Celtics LOSE TEAM: Knicks SCORE: 115-94

PLAYER WITH HIGHEST POINTS: Jonas Jerebko SCORED 20 POINTS

Extraction of Paragraph 22

HOME COURT: New Orleans Pelicans

WIN TEAM: Orleans LOSE TEAM: Nets SCORE: 102-96

PLAYER WITH HIGHEST POINTS: Tyreke Evans SCORED 15 POINTS

Extraction of Paragraph 23

HOME COURT: Houston Rockets

WIN TEAM: Houston LOSE TEAM: Clippers SCORE: 110-105

PLAYER WITH HIGHEST POINTS: Harden SCORED 21 POINTS

Extraction of Paragraph 24

HOME COURT: Milwaukee Bucks

WIN TEAM: Milwaukee LOSE TEAM: Philadelphia SCORE: 104-88

PLAYER WITH HIGHEST POINTS: John Henson SCORED 21 POINTS

Extraction of Paragraph 25

HOME COURT: Minnesota Timberwolves

WIN TEAM: Minnesota LOSE TEAM: Washington SCORE: 97-77

PLAYER WITH HIGHEST POINTS: Kevin Martin SCORED 28 POINTS

Extraction of Paragraph 26

HOME COURT: Denver Nuggets

WIN TEAM: Phoenix LOSE TEAM: Nuggets SCORE: 110-96

PLAYER WITH HIGHEST POINTS: Bledsoe SCORED 18 POINTS

Extraction of Paragraph 27

HOME COURT: Utah Jazz
WIN TEAM: Lakers LOSE TEAM: Jazz SCORE: 100-97
PLAYER WITH HIGHEST POINTS: Clarkson SCORED 22 POINTS

Extraction of Paragraph 28
HOME COURT: Sacramento Kings
WIN TEAM: Kings LOSE TEAM: Grizzlies SCORE: 102-90
PLAYER WITH HIGHEST POINTS: Rudy Gay SCORED 28 POINTS

Extraction of Paragraph 29
HOME COURT: Portland Trail Blazers
WIN TEAM: Portland LOSE TEAM: Spurs SCORE: 111-95
PLAYER WITH HIGHEST POINTS: Matthews SCORED 31 POINTS

Extraction of Paragraph 30
HOME COURT: Cleveland Cavaliers
WIN TEAM: Cleveland LOSE TEAM: Warriors SCORE: 110-99
PLAYER WITH HIGHEST POINTS: James SCORED 42 POINTS

Extraction of Paragraph 31
HOME COURT: Phoenix Suns
WIN TEAM: Suns LOSE TEAM: Thunder SCORE: 117-113
PLAYER WITH HIGHEST POINTS: Westbrook SCORED 39 POINTS

Extraction of Paragraph 32
HOME COURT: Miami Heats
WIN TEAM: Heat LOSE TEAM: 76ers SCORE: 119-108
PLAYER WITH HIGHEST POINTS: Dragic SCORED 23 POINTS

Extraction of Paragraph 33
HOME COURT: New Orleans Pelicans
WIN TEAM: Orleans LOSE TEAM: Raptors SCORE: 100-97
PLAYER WITH HIGHEST POINTS: Omer Asik SCORED 14 POINTS

Extraction of Paragraph 34
HOME COURT: Chicago Bulls
WIN TEAM: Bulls LOSE TEAM: Bucks SCORE: 87-71
PLAYER WITH HIGHEST POINTS: Tony Snell SCORED 20 POINTS

Extraction of Paragraph 35
HOME COURT: Houston Rockets
WIN TEAM: Houston LOSE TEAM: Timberwolves SCORE: 113-102
PLAYER WITH HIGHEST POINTS: Harden SCORED 31 POINTS

Extraction of Paragraph 36
HOME COURT: Denver Nuggets
WIN TEAM: Nets LOSE TEAM: Nuggets SCORE: 110-82
PLAYER WITH HIGHEST POINTS: Danilo Gallinari SCORED 22 POINTS

Extraction of Paragraph 37

HOME COURT: Phoenix Suns

WIN TEAM: Boston LOSE TEAM: Suns SCORE: 115-110

PLAYER WITH HIGHEST POINTS: Thomas SCORED 21 POINTS

Extraction of Paragraph 38

HOME COURT: Utah Jazz

WIN TEAM: Jazz LOSE TEAM: Spurs SCORE: 90-81

PLAYER WITH HIGHEST POINTS: He SCORED 7 POINTS

Extraction of Paragraph 39

HOME COURT: Los Angeles Clippers

WIN TEAM: Grizzlies LOSE TEAM: Clippers SCORE: 90-87

PLAYER WITH HIGHEST POINTS: Paul SCORED 30 POINTS

Extraction of Paragraph 40

HOME COURT: Charlotte Bobcats

WIN TEAM: Thunder LOSE TEAM: Hornets SCORE: 110-103

PLAYER WITH HIGHEST POINTS: ??? SCORED ??? POINTS

Extraction of Paragraph 41

HOME COURT: Miami Heats

WIN TEAM: Pelicans LOSE TEAM: Heat SCORE: 105-91

PLAYER WITH HIGHEST POINTS: Eric Gordon SCORED 24 POINTS

Extraction of Paragraph 42

HOME COURT: Chicago Bulls

WIN TEAM: Chicago LOSE TEAM: Suns SCORE: 112-107

PLAYER WITH HIGHEST POINTS: Pau Gasol SCORED 22 POINTS

Extraction of Paragraph 43

HOME COURT: Houston Rockets

WIN TEAM: ??? LOSE TEAM: ??? SCORE: ???

PLAYER WITH HIGHEST POINTS: James Harden SCORED 20 POINTS

Extraction of Paragraph 44

HOME COURT: Los Angeles Clippers

WIN TEAM: Clippers LOSE TEAM: Kings SCORE: 126-99

PLAYER WITH HIGHEST POINTS: Austin Rivers SCORED 28 POINTS

Extraction of Paragraph 45

HOME COURT: Orlando Magic

WIN TEAM: Orlando LOSE TEAM: Knicks SCORE: 89-83

PLAYER WITH HIGHEST POINTS: Nik Vucevic SCORED 28 POINTS

Extraction of Paragraph 46

HOME COURT: Boston Celtics

WIN TEAM: Celtics LOSE TEAM: Hawks SCORE: 89-88

PLAYER WITH HIGHEST POINTS: Al Horford SCORED 22 POINTS

Extraction of Paragraph 47

HOME COURT: Detroit Pistons

WIN TEAM: Antonio LOSE TEAM: Pistons SCORE: 104-87

PLAYER WITH HIGHEST POINTS: D.J. Augustin SCORED 22 POINTS

Extraction of Paragraph 48

HOME COURT: Toronto Raptors

WIN TEAM: Toronto LOSE TEAM: Wizards SCORE: 95-93

PLAYER WITH HIGHEST POINTS: Lou Williams SCORED 27 POINTS

Extraction of Paragraph 49

HOME COURT: New Orleans Pelicans

WIN TEAM: Indiana LOSE TEAM: Pelicans SCORE: 106-93

PLAYER WITH HIGHEST POINTS: West SCORED 17 POINTS

Extraction of Paragraph 50

HOME COURT: Cleveland Cavaliers

WIN TEAM: Cleveland LOSE TEAM: Heat SCORE: 113-93

PLAYER WITH HIGHEST POINTS: James SCORED 18 POINTS

Extraction of Paragraph 51

HOME COURT: Milwaukee Bucks

WIN TEAM: Bucks LOSE TEAM: Kings SCORE: 111-103

PLAYER WITH HIGHEST POINTS: DeMarcus Cousins SCORED 28 POINTS

Extraction of Paragraph 52

HOME COURT: Minnesota Timberwolves

WIN TEAM: Warriors LOSE TEAM: Timberwolves SCORE: 94-91

PLAYER WITH HIGHEST POINTS: Stephen Curry SCORED 25 POINTS

Extraction of Paragraph 53

HOME COURT: Oklahoma City Thunder

WIN TEAM: Oklahoma LOSE TEAM: Grizzlies SCORE: 105-89

PLAYER WITH HIGHEST POINTS: Kevin Durant SCORED 26 POINTS

Extraction of Paragraph 54

HOME COURT: Dallas Mavericks

WIN TEAM: Mavericks LOSE TEAM: Jazz SCORE: 87-82

PLAYER WITH HIGHEST POINTS: Barea SCORED 22 POINTS

Extraction of Paragraph 55

HOME COURT: Portland Trail Blazers

WIN TEAM: Blazers LOSE TEAM: Lakers SCORE: 102-86

PLAYER WITH HIGHEST POINTS: Wesley Matthews SCORED 20 POINTS

Extraction of Paragraph 56

HOME COURT: Los Angeles Clippers

WIN TEAM: Clippers LOSE TEAM: Dallas SCORE: 115-98

PLAYER WITH HIGHEST POINTS: ??? SCORED ??? POINTS

Extraction of Paragraph 57

HOME COURT: New York Knicks

WIN TEAM: State LOSE TEAM: York SCORE: 106-92

PLAYER WITH HIGHEST POINTS: Stephen Curry SCORED 22 POINTS

=====

[note: correct -> 1, wrong -> 0, missing -> 2]

[Please ignore the fifth line of each Evaluation of Paragraph]

MY EVALUATION

Extraction of Paragraph 1

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 2

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 3

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 4

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 5

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 6

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 7

1
1 0 1
1 1
5/6 83%

Extraction of Paragraph 8

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 9

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 10

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 11

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 12

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 13

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 14

1

1 1 1
1 0
6/6 100%

Extraction of Paragraph 15

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 16

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 17

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 18

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 19

1
1 1 1
0 0
4/6 67%

Extraction of Paragraph 20

1
1 1 1
0 1
5/6 83%

Extraction of Paragraph 21

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 22

1
1 1 1

1 1
6/6 100%

Extraction of Paragraph 23

1
1 1 1
0 0
6/6 100%

Extraction of Paragraph 24

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 25

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 26

1
1 1 1
0 0
4/6 67%

Extraction of Paragraph 27

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 28

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 29

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 30

1
1 1 1
1 1

6/6 100%

Extraction of Paragraph 31

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 32

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 33

1

1 1 1

0 0

4/6 67%

Extraction of Paragraph 34

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 35

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 36

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 37

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 38

1

1 1 1

0 1

5/6 83%

Extraction of Paragraph 39

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 40

1

1 1 1

2 2

4/6 67%

Extraction of Paragraph 41

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 42

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 43

1

2 2 2

1 1

3/6 50%

Extraction of Paragraph 44

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 45

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 46

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 47

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 48

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 49

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 50

1

1 1 1

0 0

4/6 67%

Extraction of Paragraph 51

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 52

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 53

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 54

1

1 1 1

1 1

6/6 100%

Extraction of Paragraph 55

1
1 1 1
1 1
6/6 100%

Extraction of Paragraph 56

1
1 1 1
2 2
4/6 67%

Extraction of Paragraph 57

1
1 1 1
1 1
6/6 100%