Problem 1.1

Iteration = 10

	team name	W
0	Mary Hardin-Baylor	0.000898
1	Clemson	0.000485
2	Mount Union	0.000579
3	Morningside	0.000938
4	North Dakota St	0.000547
5	Valdosta St	0.009898
6	St John's MN	0.000683
7	Alabama	0.000369
8	UW-Whitewater	0.002500
9	Ferris St	0.000402
10	Johns Hopkins	0.001216
11	Brockport St	0.001377
12	Princeton	0.000178
13	Minn St-Mankato	0.001645
14	Benedictine KS	0.000523
15	Kansas Wesleyan	0.001447
16	Ohio State	0.000066
17	Marian IN	0.000647
18	Bethel MN	0.000010
19	Muhlenberg	0.000372
20	Tarleton St	0.000071
21	Ouachita Baptist	0.000152
22	Georgia	0.003222
23	Notre Dame	0.000069
24	Notre Dame OH	0.000877

Iteration =100

	team_name	W
0	Mary Hardin-Baylor	0.000445
1	Clemson	0.000245
2	Alabama	0.000140
3	Mount Union	0.000904
4	St John's MN	0.000768
5	Morningside	0.027211
6	Valdosta St	0.000291
7	North Dakota St	0.000189
8	Georgia	0.002526
9	Ohio State	0.000238
10	Notre Dame	0.000725
11	UW-Whitewater	0.000229
12	Ferris St	0.000234
13	Oklahoma	0.000788
14	Johns Hopkins	0.000362
15	Texas A&M	0.000800
16	LSU	0.000017
17	Florida	0.000240
18	Kentucky	0.000004

19	Texas	0.000097
20	Michigan	0.000029
21	Syracuse	0.000069
22	Central Florida	0.003145
23	Washington St	0.000016
24	Washington	0.000511

Iteration = 1000

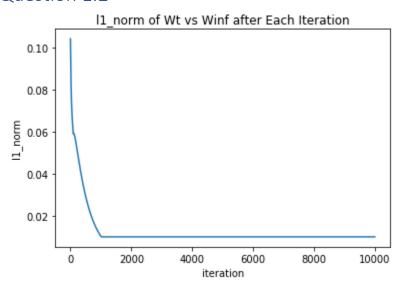
	team_name	W
0	Clemson	0.000577
1	Alabama	0.000061
2	Georgia	0.000024
3	Ohio State	0.001586
4	Notre Dame	0.001427
5	Oklahoma	0.053666
6	Texas A&M	0.000241
7	LSU	0.000178
8	Florida	0.004716
9	North Dakota St	0.000348
10	Kentucky	0.000207
11	Texas	0.000040
12	Michigan	0.000044
13	Syracuse	0.000520
14	Central Florida	0.000076
15	Mary Hardin-Baylor	0.000106
16	Washington	0.000002
17	Washington St	0.000034
18	Penn State	0.000001
19	Auburn	0.000017
20	Missouri	0.000005
21	Iowa	0.000014
22	Northwestern	0.003145
23	West Virginia	0.000003
24	Fresno St	0.000153

Iteration = 10000

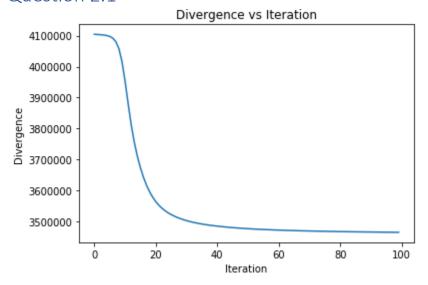
	team name	W
0	Clemson	6.020182e-04
1	Alabama	4.821643e-05
2	Georgia	3.179812e-06
3	Ohio State	1.682704e-03
4	Notre Dame	1.517526e-03
5	Oklahoma	5.722307e-02
6	Texas A&M	2.389311e-04
7	LSU	1.766860e-04
8	Florida	5.015543e-03
9	North Dakota St	3.655535e-04
10	Kentucky	1.702378e-04
11	Texas	5.837816e-06
12	Michigan	5.506202e-06

```
13
           Syracuse 4.648239e-04
    Central Florida
14
                     5.385880e-05
15
         Washington
                     1.341459e-05
16
      Washington St
                      3.085448e-07
17
         Penn State
                      4.529434e-06
18
                      1.150041e-06
             Auburn
19
           Missouri
                      2.312651e-06
20
                Iowa
                      6.169053e-07
21
       Northwestern
                      9.789275e-06
22
      West Virginia
                      3.145499e-03
23
          Fresno St
                      5.584810e-07
24
     South Carolina
                      1.284052e-04
```

Question 1.2



Question 2.1



Question 2.2

Rounded to nearest 4th decimal

Each words and their corresponding weights.

Col 1 pay 0.0227 money 0.0188 state 0.0169 bill 0.0126 cost 0.0114 budget 0.0109 tax 0.0107 law 0.0104 program 0.0102 plan 0.0093	Col2 music 0.0296 play 0.0130 performance 0.013 0 perform 0.0127 song 0.0124 dance 0.0117 sound 0.0106 sing 0.0099 concert 0.0092 band 0.0091	Col3 building 0.0216 build 0.0149 city 0.0143 space 0.0120 house 0.0116 area 0.0116 project 0.0112 site 0.0105 construction 0.00 83 owner 0.0082	Col4 family 0.0209 woman 0.0201 child 0.0190 man 0.0177 live 0.0146 life 0.0145 friend 0.0136 home 0.0131 young 0.0124 wife 0.0115	Col5 father 0.0622 mrs 0.0606 son 0.0583 graduate 0.0413 daughter 0.0363 marry 0.0328 degree 0.0286 mother 0.0283 receive 0.0257 ceremony 0.0212
Col 6 percent 0.0263 market 0.0177 price 0.0165 company 0.0139 stock 0.0133 rate 0.0119 share 0.0119 rise 0.0110 sell 0.0106 sale 0.0095	Col 7 official 0.0137 agreement 0.0109 states 0.0095 meeting 0.0093 plan 0.0086 country 0.0086 leader 0.0083 government 0.0073 american 0.0073 policy 0.0070	Col 8 case 0.0197 lawyer 0.0178 court 0.0177 charge 0.0177 law 0.0144 judge 0.0118 legal 0.0100 investigation 0.0 095 trial 0.0089 official 0.0084	Col 9 executive 0.0396 president 0.0351 company 0.0221 chief 0.0217 director 0.0167 chairman 0.0149 vice 0.0146 business 0.0141 name 0.0134 yesterday 0.0125	Col 10 win 0.0221 second 0.0220 third 0.0154 hit 0.0153 victory 0.0138 score 0.0113 finish 0.0101 beat 0.0100 race 0.0099 fourth 0.0099
Col 11 health 0.0196 problem 0.0186 medical 0.0130 cause 0.0129 doctor 0.0127 patient 0.0120 care 0.0115 treatment 0.0103 report 0.0092 hospital 0.0092	Col 12 food 0.0133 water 0.0094 restaurant 0.0080 serve 0.0079 red 0.0075 small 0.0069 eat 0.0069 dry 0.0068 add 0.0064 green 0.0064	Col 13 art 0.0184 artist 0.0123 museum 0.0096 design 0.0090 collection 0.0089 exhibition 0.0084 photograph 0.0081 display 0.0074 painting 0.0070 color 0.0065	Col 14 book 0.0136 write 0.0111 editor 0.0103 history 0.0089 world 0.0082 life 0.0081 page 0.0072 author 0.0063 great 0.0060 view 0.0058	Col 15 war 0.0194 military 0.0178 government 0.0148 american 0.0137 force 0.0124 states 0.0121 attack 0.0117 country 0.0117 peace 0.0094 leader 0.0083
Col 16 company 0.0239 computer 0.0147 industry 0.0128 product 0.0123 technology 0.0119 sell 0.0108 system 0.0096 customer 0.0094 market 0.0087 service 0.0079	Col 17 drug 0.0272 test 0.0174 study 0.0172 woman 0.0112 research 0.0108 report 0.0102 researcher 0.0092 evidence 0.0091 scientist 0.0082 disease 0.0079	Col 18 school 0.0360 student 0.0276 child 0.0142 class 0.0136 education 0.0133 program 0.0132 community 0.0121 college 0.0119 teacher 0.0101 group 0.0101	Col 19 team 0.0425 game 0.0360 player 0.0296 play 0.0290 season 0.0247 coach 0.0159 league 0.0111 point 0.0092 win 0.0089 sport 0.0087	Col 20 vote 0.0200 political 0.0187 campaign 0.0185 republican 0.0149 candidate 0.0142 election 0.0141 party 0.0135 democratic 0.0117 state 0.0110 leader 0.0108
Col 21 thing 0.0250 lot 0.0191 really 0.0162 feel 0.0146 big 0.0135 kind 0.0116 little 0.0103 great 0.0097 hard 0.0090 put 0.0089	Col 22 film 0.0192 character 0.0170 movie 0.0170 play 0.0155 television 0.0136 story 0.0123 novel 0.0092 production 0.0087 write 0.0086 star 0.0086	Col 23 ask 0.0218 tell 0.0172 question 0.0148 speak 0.0124 answer 0.0108 news 0.0104 reporter 0.0092 letter 0.0083 word 0.0081 interview 0.0080	Col 24 police 0.0170 city 0.0155 car 0.0143 mile 0.0112 official 0.0105 fire 0.0101 hour 0.0092 street 0.0090 area 0.0077 night 0.0076	Col 25 keep 0.0107 far 0.0088 bad 0.0082 slow 0.0081 cut 0.0077 move 0.0075 put 0.0074 level 0.0073 lose 0.0070 problem 0.0069