Q1

(1)

(2)

> private

[1] 0.3660934

> public

[1] 0.4405908

(3)

> school2

[1] "Abilene Christian University"

[2] "Alverno College"

[3] "Baker University"

[4] "Belmont Abbey College"

[5] "Berry College"

[6] "Bethune Cookman College"

[7] "Central Missouri State University"

[8] "Coe College"

[9] "College of Charleston"

[10] "College of Notre Dame"

[11] "Dillard University"

[12] "Dordt College"

[13] "East Tennessee State University"

[14] "Embry Riddle Aeronautical University"

[15] "Florida International University"

[16] "Fort Lewis College"

[17] "Francis Marion University"

[18] "Georgia State University"

[19] "Gonzaga University"

[20] "Illinois State University"

[21] "Incarnate Word College"

[22] "Indiana State University"

[23] "King College"

[24] "La Salle University"

[25] "Lindenwood College"

[26] "Longwood College"

[27] "Louisiana State University at Baton Rouge"

[28] "McPherson College"

[29] "Mesa State College"

[30] "MidAmerica Nazarene College"

[31] "Montana State University"

[32] "Montreat-Anderson College"

[33] "Mount Mercy College"

[34] "Northern Arizona University"

[35] "Oglethorpe University"

[36] "Ohio University"

[37] "Oklahoma State University"

[38] "Pennsylvania State Univ. Main Campus"

[39] "Polytechnic University"

[40] "Rider University"

[41] "Saint Louis University"

[42] "San Diego State University"

[43] "Southern Illinois University at Edwardsville"

[44] "Spelman College"

[45] "Tennessee Wesleyan College"

[46] "Texas Christian University"

[47] "University of Alabama at Birmingham"

[48] "University of Connecticut at Storrs"

[49] "University of Illinois at Chicago"

[50] "University of Kansas"

[51] "University of La Verne"

[52] "University of Louisville"

[53] "University of Maryland at Baltimore County"

[54] "University of Minnesota at Duluth"

[55] "University of Minnesota Twin Cities"

[56] "University of Missouri at Saint Louis"

[57] "University of New England"

[58] "University of New Hampshire"

[59] "University of North Florida"

[60] "University of Northern Colorado"

[61] "University of Northern Iowa"

[62] "University of Oklahoma"

[63] "University of San Francisco"

[64] "University of South Carolina at Columbia"

[65] "University of Southern California"

[66] "University of Southern Colorado"

[67] "University of Tennessee at Knoxville"

[68] "University of Texas at Arlington"

[69] "University of Texas at Austin"

[70] "University of Tulsa"

[71] "University of Utah"

[72] "Virginia Commonwealth University"

[73] "Virginia Tech"

[74] "Viterbo College"

[75] "Washington State University"

[76] "Western Washington University"

[77] "Whitworth College"

[78] "William Jewell College"

[79] "William Woods University"

>

(4)

(5)

Q2

> matrix1

[,1] [,2] [,3] [,4]

[1,] 1.69527108 1.00719953 0.004101957 -0.98135999

[2,] -1.76122629 0.71929182 -0.233427178 1.47424490

[3,] 0.19801302 -0.60471166 -0.498888219 -0.99119725

[4,] 0.39734910 0.53905441 1.549712963 -0.09449734

[5,] 0.02922549 -0.07683089 0.087496917 -2.87514168

[6,] 2.56027339 1.84991956 1.318701131 -0.24686610

[7,] 1.25712771 -0.85490755 -0.981224119 0.01474449

[8,] -0.53453769 0.03263729 -0.245622588 -1.91908770

[9,] -0.62522743 -1.02505948 -1.403933837 -0.28781374

[10,] 0.91384869 -0.98224908 1.440893147 -0.34663745

[,5] [,6] [,7] [,8] [,9]

[1,] -1.8395886 -1.1606550 0.9657613 -0.97715712 -0.4439419

[2,] 0.8985889 0.3587742 1.2938800 0.06073525 -0.3125704

[3,] -1.2128550 -0.1948464 -0.1365510 -0.59722948 -0.6030044

[4,] -0.2189642 -0.2952820 -0.4401387 -1.25894870 -1.0939347

[5,] 0.5642682 0.4966404 -1.2272839 -1.41004720 0.7147062

[6,] -0.5254344 0.4849128 -0.2376531 1.10130408 -0.1088123

[7,] 0.7443742 0.0187845 -0.9268582 -0.67724203 -1.4437979

[8,] 0.1289818 0.6347746 0.4112354 -0.76217351 0.8061233

[9,] 1.4882743 0.7544441 -0.1988646 -0.29174860 -1.7398351

[10,] -0.6626820 0.8335890 -0.5574496 -0.57518853 -0.4013203

[,10]

[1,] -0.2875825

[2,] -0.9384074

[3,] 0.2876671

[4,] -1.5054011

[5,] 1.5192970

[6,] 0.3674094

[7,] 1.6998624

[8,] 0.6441970

[9,] -1.6878010

[10,] 0.6476460