

PS2

Becky Lau

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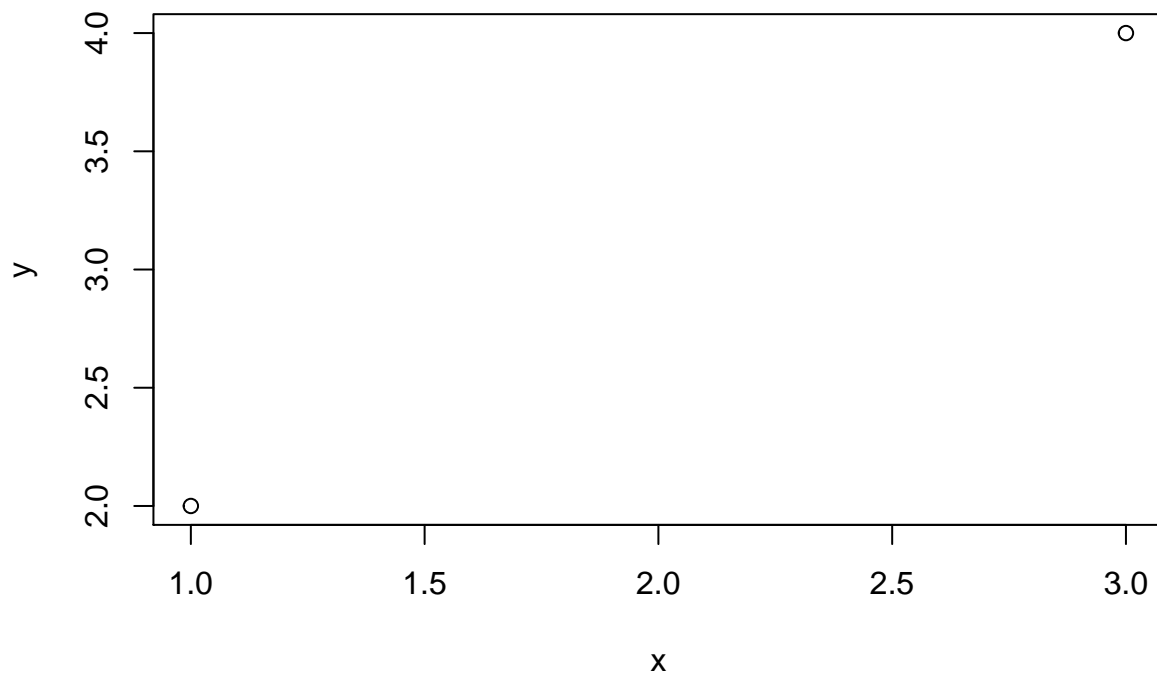
Computation Part 1

```
# create dataframe from vectors

raw <- as.data.frame(cbind(c(1,3),c(2,4)))%>%
  rename(x = V1, y = V2)

rownames(raw) <- c("p","q")

plot(raw)
```



Scale and view

```
df <- raw %>% scale()
df <- as.data.frame(df)
glimpse(df)
```

```
## Observations: 2
## Variables: 2
## $ x <dbl> -0.7071068, 0.7071068
## $ y <dbl> -0.7071068, 0.7071068
```

Euclidean (by hand)

```
# values from scaled vectors
x1 = -0.7071068
x2 = 0.7071068
y1 = -0.7071068
y2 = 0.7071068

euclidean_sum <- (x1-x2)^2+ (y1-y2)^2
euclidean_hand <- sqrt(euclidean_sum)

euclidean_hand
```

```
## [1] 2
```

Manhattan (by hand)

```
manhattan_hand <- abs(x1-x2)+ abs(y1-y2)

manhattan_hand
```

```
## [1] 2.828427
```

Canberra (by hand)

```
canberra_1 <- abs(x1-x2)/(abs(x1)+abs(x2))
canberra_2 <- abs(y1-y2)/(abs(y1)+abs(y2))
canberra_hand <- canberra_1 + canberra_2
canberra_hand
```

```
## [1] 2
```

Euclidean (using dist fn)

```
euclidean <-
  df%>%
  dist(method = "euclidean")

euclidean
```

```
##    p
## q 2
```

Manhattan (using dist fn)

```
manhattan <-  
  df%>%  
    dist(method = "manhattan")  
  
manhattan  
  
##           p  
## q 2.828427
```

Canberra (using dist fn)

```
canberra <-  
  df%>%  
    dist(method = "canberra")  
  
canberra  
  
##    p  
## q 2
```

Originally my hand calculations did not match those generated with the dist function because I forgot to use scaled values in my hand calculations.

There are many key differences between these measures. Euclidean distance is the most intuitive way of representing distance, as defined by the pythagorean theorem. Manhattan distance is also known as “city block” distance. Canberra is a weighted version of Manhattan distance that is often used for data scattered around an origin. These differences are important because different measures of similarity may be more appropriate for specific kinds of data (e.g. norms in the field of study, how the data is clustered/structured, mixed data vs. continuous data).

I notice that in the fictitious data, Manhattan distance seems to generate a higher value than Euclidean, probably because Euclidean distance is the shortest distance possible between two points. The Canberra distance gives the same value as Euclidean in the dataset.

Computation Part 2

```
faith <- as.data.frame(faithful)
```

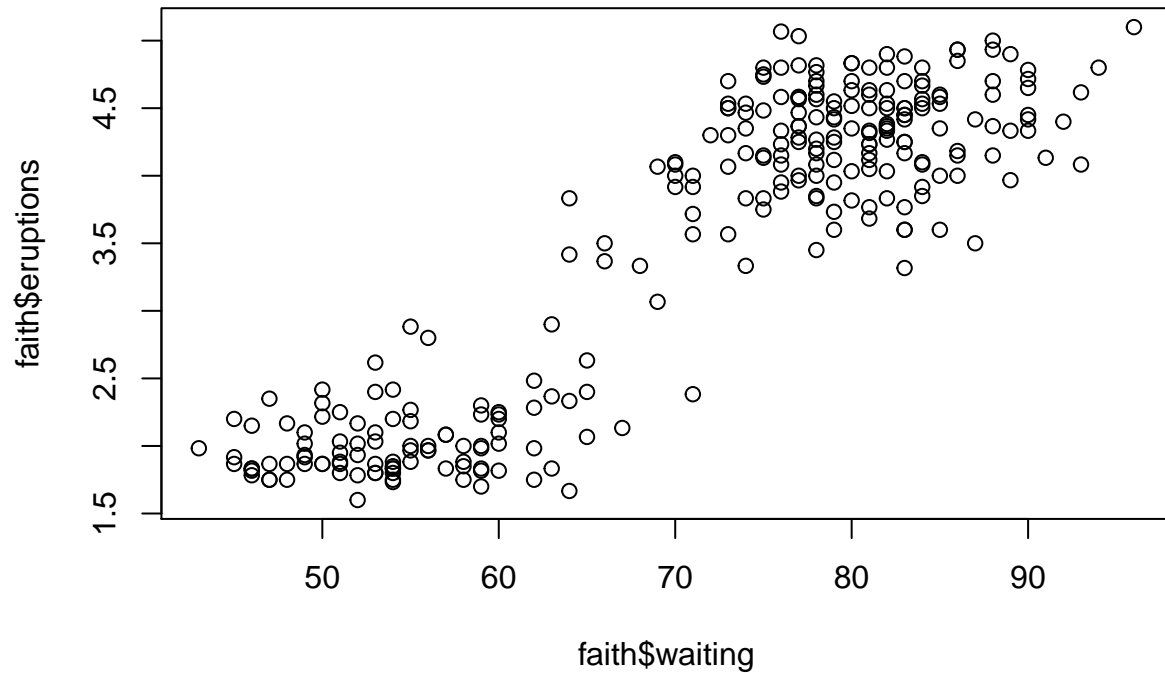
EDA

Scatterplot

The scatterplot shows that there are two clusters of data (defined by density) when plotting eruptions against waiting time.

There is generally a positive relationship between waiting time and eruptions, although the relationship may deviate from a linear relationship.

```
plot(faith$waiting, faith$eruptions)
```



centrality measures

The means of eruptions and waiting time data are about 3.5 and 70.9 respectively. The standard deviation of wait time is larger than that of eruptions.

```
mean(faith$eruptions)
```

```
## [1] 3.487783
```

```
sd(faith$eruptions)
```

```
## [1] 1.141371
```

```
mean(faith$waiting)
```

```
## [1] 70.89706
```

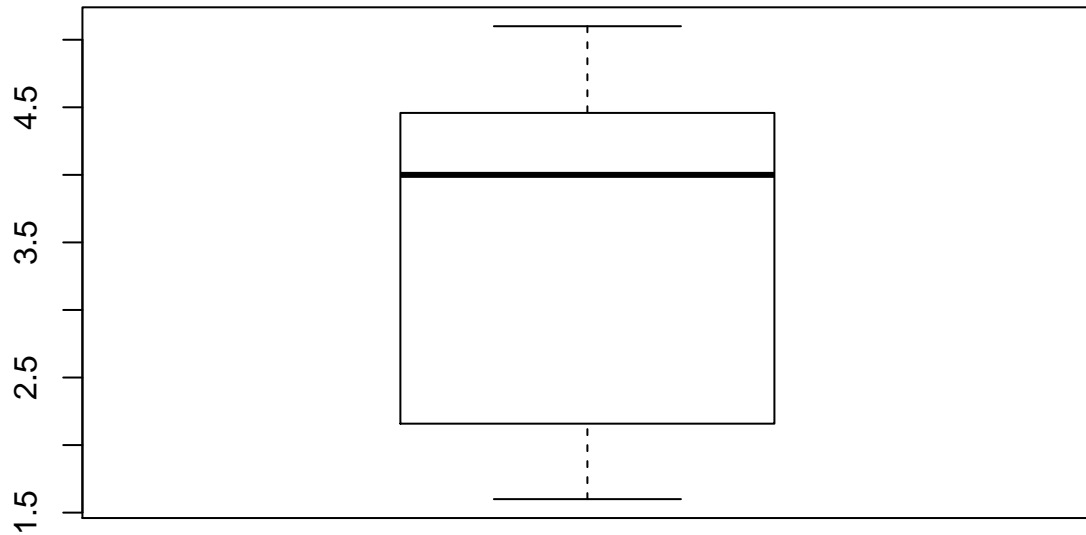
```
sd(faith$waiting)
```

```
## [1] 13.59497
```

boxplot of eruptions

There doesn't seem to be outliers in the data. The data seems slightly skewed.

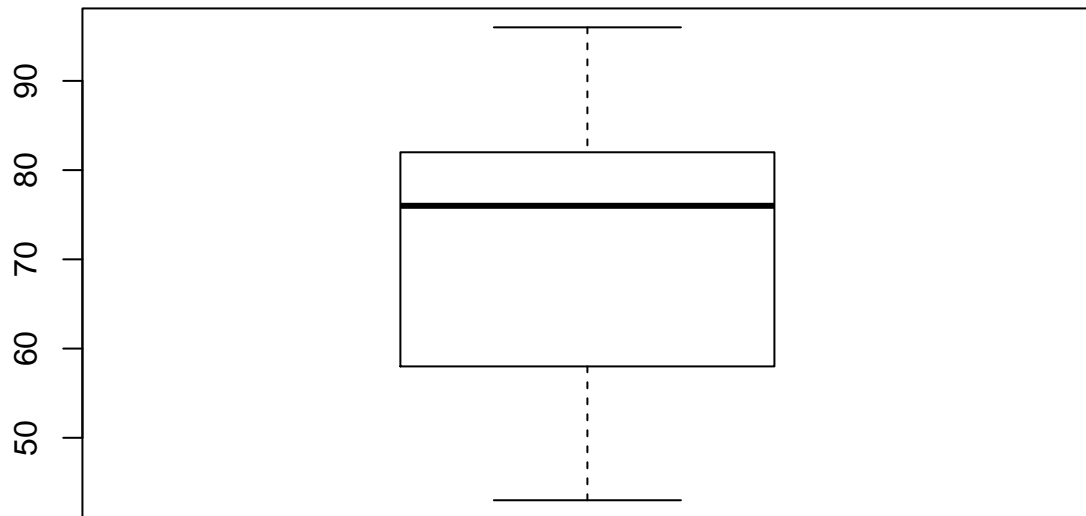
```
boxplot(faith$eruptions)
```



boxplot of waiting

There doesn't seem to be outliers in the data. The data seems slightly skewed.

```
boxplot(faith$waiting)
```



scale and calculate dissimilarity matrix

```
x_scaled <- scale(faith)
x_dist <- dist(x_scaled, method = "euclidean")
x_dist
```

```
##           1           2           3           4           5
## 2  2.4225391725
## 3  0.4358751729 1.9920351113
## 4  1.7014945126 0.7248130160 1.2749208879
## 5  0.9289699531 3.3065290414 1.3266694240 2.5977428750
## 6  1.8737969061 0.9517054883 1.4521225178 0.7358404593 2.6380599615
## 7  1.1692203825 3.5651513791 1.5795299522 2.8534008916 0.2647702837
## 8  0.4413395783 2.7724805730 0.8422601511 2.0478332612 0.8174377961
## 9  2.5162936846 0.2568396392 2.0809639367 0.8601162156 3.3728468719
## 10 0.7915596844 3.1923358171 1.2035863008 2.4782735920 0.1603334584
## 11 2.4038175375 0.0289125909 1.9726564808 0.7083217233 3.2856519176
## 12 0.4608705492 2.8826634532 0.8960237773 2.1606083017 0.5446911910
## 13 0.5308047510 2.7455381525 0.8146044990 2.0508593415 0.5918096463
## 14 2.8579022417 0.5167563450 2.4223702271 1.1981031776 3.7091980975
## 15 1.0076651557 3.3175252676 1.3684659257 2.6211470815 0.2074859965
## 16 2.3495970593 0.3535989653 1.9137239378 0.7425539567 3.1920550521
## 17 2.0471526963 0.5900811073 1.6439867356 0.4669821493 2.9677392655
```

## 18	1.1138387518	3.4319226907	1.4808927416	2.7352897913	0.2452211601
## 19	2.6485442478	0.2287948460	2.2190315969	0.9482317532	3.5349051377
## 20	0.5694904260	2.8265253595	0.8835990763	2.1292357078	0.5062198354
## 21	2.5940272028	0.2206697892	2.1601314278	0.9131027116	3.4623974370
## 22	2.8579022417	0.5167563450	2.4223702271	1.1981031776	3.7091980975
## 23	0.1506055022	2.2817394132	0.3115720025	1.5590123643	1.0795604820
## 24	0.8712804457	1.5651295284	0.4354055868	0.8584521869	1.7420795767
## 25	0.8963642520	2.8103029943	1.0513669403	2.1599068241	0.8091225603
## 26	0.2942263856	2.6528060206	0.7021248088	1.9280795246	0.8305701909
## 27	2.2723320892	0.1637642212	1.8399895351	0.5846105616	3.1502059149
## 28	0.4772550683	2.5728621682	0.6733709246	1.8834968224	0.7705189177
## 29	0.2310558534	2.5184145773	0.5401346887	1.8083109558	0.7894328606
## 30	0.7298238844	2.9501317017	1.0315445807	2.2609683466	0.4499520207
## 31	0.7555887122	2.5982379140	0.8504136401	1.9435993187	0.9059778156
## 32	0.7737270936	2.8848201228	1.0177526133	2.2088038792	0.5912870838
## 33	0.9777832706	1.6321777940	0.5892062731	0.9942662427	1.7311380207
## 34	0.3864334776	2.7358949520	0.7555887122	2.0257988799	0.5719871151
## 35	0.4206395494	2.3101666396	0.4380695585	1.6196693947	1.0152896119
## 36	2.4223702271	0.2403928826	1.9869887125	0.7716028709	3.2789241223
## 37	2.7395153747	0.4452263115	2.3037538623	1.0923888899	3.5864989387
## 38	1.0827808819	3.2739807086	1.3863351203	2.5970123313	0.4520509922
## 39	2.1356403858	0.3689176869	1.7159613453	0.4518165066	3.0419558273
## 40	1.3148972267	3.7205651237	1.7317699571	3.0065782183	0.4280660654
## 41	0.6612085023	2.9409173229	0.9943446532	2.2433618874	0.4012120882
## 42	2.1561711398	0.3030796899	1.7317699571	0.4575896921	3.0553096952
## 43	0.9236109074	3.2782059499	1.3076524273	2.5735433659	0.0793595697
## 44	2.2390268508	0.2974696881	1.8189767861	0.5519433791	3.1447719985
## 45	0.9289699531	2.7725061908	1.0539369127	2.1309045762	0.8826791567
## 46	0.3847688453	2.5133258200	0.6621577707	1.7907450685	1.0754942323
## 47	1.1220749552	1.9270957530	0.8561321307	1.3659607410	1.6619856544
## 48	2.3204938492	0.2729401960	1.8849579577	0.6811484571	3.1755855051
## 49	0.9315652149	3.2253247987	1.2820117180	2.5304958467	0.2374265221
## 50	2.0320767000	0.4073930681	1.6066592638	0.3319232655	2.9296183898
## 51	1.0917607838	3.0487112697	1.2873991602	2.4036388638	0.7718679497
## 52	1.2691398440	3.6795673906	1.6891786500	2.9640859993	0.4012120882
## 53	2.4038175375	0.0289125909	1.9726564808	0.7083217233	3.2856519176
## 54	1.0827808819	3.2739807086	1.3863351203	2.5970123313	0.4520509922
## 55	2.4611565923	0.0587013208	2.0320767000	0.7605798044	3.3492834140
## 56	1.1619550749	3.4418646580	1.5107822005	2.7523030650	0.3401113217
## 57	0.5973144989	2.0939371871	0.4023497161	1.4201253064	1.2536333199
## 58	2.0212821813	0.7447386878	1.6345118219	0.5593927173	2.9480938767
## 59	0.8599041097	2.9562326895	1.1034458479	2.2851229906	0.5892062731
## 60	0.6451876954	2.9677265029	1.0041765291	2.2647250319	0.3498331504
## 61	1.8970165355	0.5283792024	1.4649910568	0.2249760103	2.7781748956
## 62	0.8700783419	3.2350368744	1.2595515805	2.5281686396	0.0790348707
## 63	2.7976309857	0.4435083683	2.3624388151	1.1307274697	3.6540877878
## 64	1.0742753832	3.3392314837	1.4135991966	2.6509096780	0.3215866918
## 65	2.0960792727	0.4415908350	1.6806721822	0.4339764123	3.0073368444
## 66	1.1856067885	3.6058253913	1.6207875415	2.8826634532	0.5279171304
## 67	0.5021870960	2.7234582274	0.7877129492	2.0272491683	0.6065849836
## 68	0.9665559854	3.0938927083	1.2332930524	2.4226960275	0.5352814381
## 69	1.6924677305	0.8422601511	1.2917289058	0.2907047007	2.6138562720
## 70	1.0600002469	2.8998101529	1.1999388151	2.2669425895	0.8947237791
## 71	0.4388797279	2.8406800345	0.8499472586	2.1248681465	0.4905100344

## 72	2.2156705980	0.2074859965	1.7847605702	0.5209914216	3.0991246355
## 73	0.7885252052	2.9962570048	1.0865897195	2.3101028029	0.4422856106
## 74	0.6849057046	2.2975933410	0.6246604996	1.6435533913	1.1307274697
## 75	1.8896408342	0.6099044857	1.4758419604	0.2628417351	2.8024347429
## 76	1.3041016757	3.2881217628	1.5263314145	2.6476459206	0.8106465202
## 77	1.9689557385	0.4805487175	1.5459233993	0.2756011514	2.8706859088
## 78	0.8504136401	2.9989345840	1.1204761262	2.3215328646	0.5157571514
## 79	0.3319232655	2.4391256977	0.5038325779	1.7394191124	0.8732558319
## 80	0.2942263856	2.6528060206	0.7021248088	1.9280795246	0.8305701909
## 81	0.5519433791	2.5620561551	0.7047603949	1.8819047312	0.8147861361
## 82	0.6790646544	3.0277063563	1.0554129126	2.3216699071	0.2817799601
## 83	0.7938270219	2.3336270362	0.7335880468	1.6972226819	1.1667472546
## 84	1.3335160552	1.0896431617	0.9024356383	0.3777943561	2.2215617152
## 85	0.6018222724	2.4286285339	0.6472791670	1.7600423084	0.9725305797
## 86	1.3424721585	3.7133999243	1.7394191124	3.0080154540	0.4141428693
## 87	0.3777943561	2.4833524870	0.5602380631	1.7870652950	0.8361590235
## 88	0.8067797585	3.0535527817	1.1273300221	2.3630549072	0.3680500407
## 89	2.6030480686	0.5460499613	2.1682180014	1.0347953297	3.4211366327
## 90	0.6228460734	3.0423192176	1.0585972216	2.3193752008	0.4727397811
## 91	1.8595030307	0.5635599203	1.4303346864	0.1641049175	2.7494867067
## 92	1.0330116004	3.4550280883	1.4672172326	2.7327296135	0.4073930681
## 93	2.6183345362	0.3000250173	2.1831684705	0.9549679039	3.4761835602
## 94	1.0687954641	3.1786139748	1.3330657789	2.5127898505	0.5718664263
## 95	1.9446946711	0.6626404308	1.5433158329	0.4010655466	2.8661237349
## 96	0.8007819612	2.5594235800	0.8599041097	1.9141463583	0.9777832706
## 97	1.0045849719	3.3435177909	1.3809705366	2.6422434325	0.1385422432
## 98	0.3222430921	2.3032448294	0.3726811022	1.6019902747	1.0058213129
## 99	2.5587639770	0.2283440407	2.1241298561	0.8874235299	3.4220640870
## 100	1.1601605652	3.4086236152	1.4937063036	2.7242279827	0.3899808875
## 101	1.5878936618	0.8392632688	1.1548713195	0.1752278234	2.4674105978
## 102	0.9433125988	3.3634571729	1.3715602600	2.6441185359	0.2642871275
## 103	2.5683963922	0.4520509922	2.1327475028	0.9695842580	3.3994145263
## 104	0.8416300643	3.1853162761	1.2180596452	2.4817296462	0.1499274138
## 105	0.4208150322	2.7982820836	0.8122456165	2.0856527792	0.5154089738
## 106	2.8010374113	0.5182315272	2.3651727675	1.1619897160	3.6426319610
## 107	1.0315445807	3.3652931077	1.4055247683	2.6651579046	0.1637642212
## 108	2.5453085848	0.1478652549	2.1125633067	0.8561321307	3.4201225466
## 109	1.2101751665	3.5610685708	1.5955053699	2.8591453072	0.2873115280
## 110	0.1641049175	2.5818691941	0.5992924915	1.8595030307	0.8007336866
## 111	1.0353522096	2.9982500081	1.2287983102	2.3498988016	0.7561495073
## 112	1.8605124375	0.5719871151	1.4270590352	0.2211718743	2.7358949520
## 113	1.3558520083	3.7422957642	1.7613235801	3.0333968710	0.4358429795
## 114	0.7158056585	2.9391830494	1.0184598752	2.2493025889	0.4528904004
## 115	2.2215617152	0.3780747536	1.8067600963	0.5564177080	3.1334291418
## 116	0.9169301419	3.1788580574	1.2499581801	2.4884527097	0.3069940773
## 117	2.4111951841	0.5401346887	1.9770862575	0.8831816699	3.2245105536
## 118	0.9810200689	3.3492834140	1.3736560202	2.6425652774	0.0587013208
## 119	2.1458240047	0.3680844522	1.7267210537	0.4640995483	3.0528698158
## 120	0.9266360691	3.3390571740	1.3477325443	2.6224634643	0.1788054330
## 121	2.0974483985	0.7195750924	1.6672094975	0.7238017627	2.8910900571
## 122	0.8417046462	2.2720912492	0.7408266120	1.6456572185	1.2457126034
## 123	0.5881850362	2.7330990856	0.8331735483	2.0463059487	0.6385566241
## 124	2.2156705980	0.2074859965	1.7847605702	0.5209914216	3.0991246355
## 125	1.0981239251	3.5032500764	1.5141743055	2.7889972136	0.2283440407

126 0.2074859965 2.6295050415 0.6400811330 1.9088509664 0.7327855493
 ## 127 2.9032562313 0.6698987606 2.4676734743 1.2909232478 3.7296231170
 ## 128 0.8188205879 3.1365326597 1.1796989279 2.4366264689 0.2225558217
 ## 129 2.1167109081 0.4157162458 1.6809241857 0.5150869649 2.9683422500
 ## 130 1.2251449279 3.6396557364 1.6481913334 2.9227767403 0.3818013470
 ## 131 2.9257488270 0.6646068370 2.4899852172 1.3024963585 3.7567029389
 ## 132 0.5773651119 2.9750674828 0.9859913423 2.2606846688 0.3528024419
 ## 133 1.8312481238 0.8884042119 1.4039579547 0.6324214887 2.6183345362
 ## 134 0.9764686049 3.3989804967 1.4088998007 2.6777284464 0.3424528523
 ## 135 2.8790353535 0.5891626276 2.4431605707 1.2411888072 3.7182562220
 ## 136 0.7206347078 3.0599612600 1.0920519404 2.3557232978 0.2568396392
 ## 137 2.5504706388 0.2323430402 2.1156827689 0.8817587413 3.4125110916
 ## 138 1.2763593399 3.6159567723 1.6565714772 2.9166932791 0.3580917944
 ## 139 2.3542364196 0.2169882061 1.9192029642 0.6973038342 3.2152838245
 ## 140 0.1165265025 2.4999621608 0.5080191750 1.7825756896 0.8282857386
 ## 141 0.5737761605 2.9134557321 0.9417484112 2.2072813401 0.3945312962
 ## 142 1.8405595329 0.5819801398 1.4104226966 0.1534970386 2.7280609477
 ## 143 0.8466993010 3.1583956217 1.2048440177 2.4597366006 0.2206697892
 ## 144 1.0763621429 3.1383578311 1.3187836672 2.4791904069 0.6388973334
 ## 145 0.6790646544 2.7466040702 0.8884042119 2.0703609085 0.6848074129
 ## 146 2.0423800017 0.4012120882 1.6175184372 0.3431922691 2.9409173229
 ## 147 0.9080358840 3.1334291418 1.2214982622 2.4478982193 0.3780747536
 ## 148 2.6063548259 0.4140178358 2.1704872538 0.9842258474 3.4454799353
 ## 149 1.8140562291 4.2312680898 2.2395195866 3.5136961081 0.9494528024
 ## 150 2.4788374813 0.0735565964 2.0469580779 0.7857058273 3.3576778274
 ## 151 1.2640969143 3.2993297109 1.5056946037 2.6500006174 0.7336086163
 ## 152 0.3800808491 2.5646583886 0.6246604996 1.8655804040 0.7512316498
 ## 153 1.4716809186 0.9648950349 1.0518844771 0.2433168770 2.3783734550
 ## 154 0.8884042119 3.1563343424 1.2236705501 2.4645841440 0.3000250173
 ## 155 0.5891626276 1.9900719255 0.3012091350 1.3052958717 1.3329595870
 ## 156 0.7490497734 2.2584034750 0.6542742161 1.6153290722 1.1981031776
 ## 157 0.8021310932 3.0887304216 1.1447842449 2.3929346433 0.2956435419
 ## 158 1.1133505860 3.4971965637 1.5443454657 2.7724805730 0.7083217233
 ## 159 2.4788374813 0.0735565964 2.0469580779 0.7857058273 3.3576778274
 ## 160 0.8027747032 3.1988449351 1.2352846884 2.4740991702 0.5766114457
 ## 161 2.7855263335 0.7490497734 2.3528019079 1.2525748252 3.5825948279
 ## 162 0.7052113483 3.1272362723 1.1364419186 2.4066935203 0.3435286694
 ## 163 2.0859456374 0.3424528523 1.6580355090 0.3847688453 2.9781578655
 ## 164 0.2169882061 2.5078139342 0.5277064563 1.7970289675 0.8007819612
 ## 165 0.9602411223 1.7313415542 0.6063701931 1.1061113584 1.6650331530
 ## 166 0.8890656211 2.9264313710 1.1050104770 2.2630026010 0.6634571968
 ## 167 1.5975326353 0.8276700485 1.1708920937 0.1040523803 2.4940024708
 ## 168 1.3938404202 3.7569999338 1.7870652950 3.0535527817 0.4648704981
 ## 169 2.4652459734 0.1876718340 2.0305792239 0.7969257851 3.3288471552
 ## 170 1.3617683169 3.7842990683 1.7940896625 3.0628764450 0.5930370889
 ## 171 2.6540139580 0.3818013470 2.2182715422 1.0085703183 3.5021813833
 ## 172 2.0940945924 0.3319232655 1.6622458972 0.4073930681 2.9748154051
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 ## 215 1.5111774244 1.7970289675 1.7100372058 1.4357107183 2.2560788869
 ## 216 2.6241201413 2.9221551515 0.6024220088 2.4464556674 1.1369596554
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 ## 218 3.9356745096 4.2487895538 1.0301981464 3.6586031167 0.2946031366
 ## 219 0.2211718743 0.5279171304 3.0890838400 0.3285990159 3.5458757829

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##	221	0.1972656481	0.1471131928	3.4091621102	0.6626792370	3.8966691334
##	222	2.9589847212	3.2674320212	0.5172561114	2.7221031821	0.7420647065
##	223	0.2763424253	0.4530878173	3.3096355993	0.3749032599	3.7514670278
##	224	2.7441225394	3.0327346773	0.4788504375	2.6030206232	1.1342242609
##	225	2.5838053273	2.8917030843	0.7445033201	2.3575143599	1.1179184764
##	226	2.7073069148	3.0142387971	0.6316133663	2.4836741604	0.9975778989
##	227	2.6332530521	2.9392230482	0.6733709246	2.4164626631	1.0748284385
##	228	2.7465655385	3.0481150499	0.5172561114	2.5496802724	0.9917186387
##	229	2.1270009205	2.4175688778	1.0886382531	1.9971216508	1.6552674067
##	230	2.9781578655	3.2749447129	0.2586280557	2.7983685386	0.8344774570
##	231	2.2426546737	2.5274955612	0.9863282404	2.1309045762	1.5938515701
##	232	0.3800808491	0.6534413504	2.8527507325	0.6301314498	3.3629160025
##	233	3.1394192607	3.4540221541	0.7204859254	2.8606795880	0.6024220088
##	234	0.2287948460	0.3401113217	3.1816171335	0.7425944659	3.7028635293
##	235	3.5152217436	3.8295853989	0.8084915962	3.2336897630	0.2917543259
##	236	0.1882170868	0.4415621520	3.2152384289	0.3703827361	3.6698480293
##	237	0.2074859965	0.4415908350	3.2385258465	0.3680844522	3.6899245137
##	238	2.7061315883	3.0051507892	0.5300001235	2.5220355218	1.0518040471
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##	240	0.9250805001	1.2457126034	2.4865096232	0.5719871151	2.8749234467
##	241	2.5208379940	2.8187249051	0.7023891317	2.3465005542	1.2348909617
##	242	0.4694517105	0.4295204503	3.2595569442	0.9921183445	3.8141926957
##	243	3.5751553784	3.8766952641	0.4499520207	3.3646892044	0.3222430921
##	244	1.1194570088	1.4270590352	2.1051979290	0.9800488814	2.5818691941
##	245	3.3085337506	3.6151820304	0.4280660654	3.0761455813	0.4073930681
##	246	2.7204806543	3.0367074820	0.8884042119	2.4357077120	1.0193397325
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##	249	1.1080198499	1.4168734983	2.5515357745	0.6444861841	2.8727691796
##	250	2.6070647049	2.8965746799	0.6114391775	2.4658612833	1.2365382788
##	251	0.2175985050	0.5290569063	2.9965340435	0.4885225262	3.4833283255
##	252	3.1214543421	3.4277435069	0.4016173921	2.8937309701	0.5918096463
##	253	2.0567617974	2.3664380679	1.2228758049	1.8353521674	1.6427723861
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##	255	3.2410698211	3.5577828858	0.8392632688	2.9446986232	0.5737761605
##	256	2.5940272028	2.9084877048	0.8901573428	2.3254269483	1.1213234434
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##	272	2.6881880203	2.9743329986	0.5455345039	2.5579466299	1.2090318827
##		41	42	43	44	45

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## 92 0.5458803919 1.0830852491 0.7530244495 3.6256836046 0.4143546219
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## 270 3.3995526097 0.9672328289 0.5352814381 0.7677482765 3.5485510318
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## 261 2.8591453072 0.4608705492 1.1138387518 0.4358751729 0.9128426387
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## 265 0.8311592892 3.6508517809 2.6068211542 3.1197128966 3.8158966465
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## 262 0.6928881855 1.0980276573 0.1034345462 3.0277063563 0.4280660654
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## 266 2.5721816776 2.6678441560 0.3800808491 2.4357077120 1.2721550238
## 267 0.2211718743 0.6887690826 2.8318435119 0.7336086163 3.3789858369
## 268 0.6107491311 0.4260708388 2.6090635864 0.1876718340 3.3628222974
## 269 3.2859725462 3.4888309031 0.9209822318 3.2851601741 0.2647702837
## 270 0.9344281210 0.4528904004 3.2555565629 0.5352814381 4.0619709698
## 271 3.4958028426 3.6708764728 0.8831525528 3.4570205295 0.2642871275
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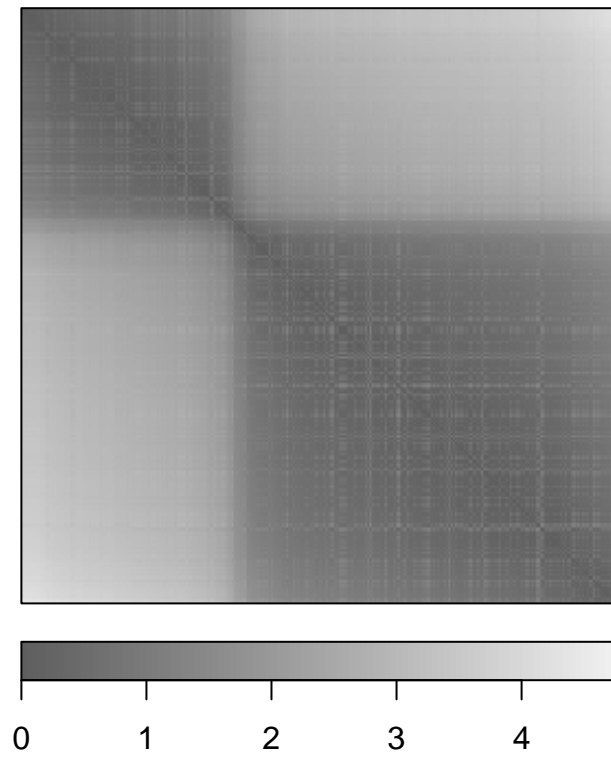
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odi

The ODI shows that there are two main clusters in the data. One cluster has a larger number of datapoints than the other.

```
seriation::dissplot(x_dist)
```

```
## Registered S3 method overwritten by 'seriation':
##   method      from
##   reorder.hclust gclus
```



Computation part 3

Iris data dissimilarity matrix

```
iris <- as.data.frame(iris)%>%
  select(Sepal.Length, Petal.Width)
```

```
x_scaled <- scale(iris)
x_dist <- dist(x_scaled, method = "euclidean")
x_dist
```

```
##           1           2           3           4           5           6           7
## 2    0.2415266
## 3    0.4830532 0.2415266
## 4    0.6038165 0.3622899 0.1207633
## 5    0.1207633 0.1207633 0.3622899 0.4830532
## 6    0.4473254 0.6583619 0.8851277 1.0011032 0.5497149
## 7    0.6179044 0.3853122 0.1783123 0.1311927 0.5005516 0.9749734
## 8    0.1207633 0.1207633 0.3622899 0.4830532 0.0000000 0.5497149 0.5005516
## 9    0.8453431 0.6038165 0.3622899 0.2415266 0.7245798 1.2358089 0.2748575
## 10   0.2748575 0.1311927 0.2748575 0.3853122 0.1783123 0.7207621 0.4473254
## 11   0.3622899 0.6038165 0.8453431 0.9661064 0.4830532 0.2623854 0.9749734
## 12   0.3622899 0.1207633 0.1207633 0.2415266 0.2415266 0.7706244 0.2748575
```

## 13	0.3853122	0.1783123	0.1783123	0.2748575	0.2748575	0.8245724	0.3566247
## 14	0.9749734	0.7363609	0.5005516	0.3853122	0.8554627	1.3854748	0.4473254
## 15	0.8453431	1.0868697	1.3283963	1.4491596	0.9661064	0.5497149	1.4550860
## 16	0.7706244	1.0011032	1.2358089	1.3540616	0.8851277	0.3622899	1.3348589
## 17	0.4473254	0.6583619	0.8851277	1.0011032	0.5497149	0.0000000	0.9749734
## 18	0.1311927	0.2748575	0.5005516	0.6179044	0.1783123	0.3853122	0.6038165
## 19	0.7363609	0.9749734	1.2147383	1.3348589	0.8554627	0.3853122	1.3283963
## 20	0.1311927	0.2748575	0.5005516	0.6179044	0.1783123	0.3853122	0.6038165
## 21	0.3622899	0.6038165	0.8453431	0.9661064	0.4830532	0.2623854	0.9749734
## 22	0.2623854	0.3566247	0.5497149	0.6583619	0.2888423	0.3622899	0.6179044
## 23	0.6038165	0.3622899	0.1207633	0.0000000	0.4830532	1.0011032	0.1311927
## 24	0.3935780	0.4617778	0.6230923	0.7207621	0.4116885	0.3853122	0.6583619
## 25	0.3622899	0.1207633	0.1207633	0.2415266	0.2415266	0.7706244	0.2748575
## 26	0.1207633	0.1207633	0.3622899	0.4830532	0.0000000	0.5497149	0.5005516
## 27	0.2888423	0.2888423	0.4473254	0.5497149	0.2623854	0.4830532	0.5005516
## 28	0.1207633	0.3622899	0.6038165	0.7245798	0.2415266	0.3566247	0.7363609
## 29	0.1207633	0.3622899	0.6038165	0.7245798	0.2415266	0.3566247	0.7363609
## 30	0.4830532	0.2415266	0.0000000	0.1207633	0.3622899	0.8851277	0.1783123
## 31	0.3622899	0.1207633	0.1207633	0.2415266	0.2415266	0.7706244	0.2748575
## 32	0.4473254	0.6583619	0.8851277	1.0011032	0.5497149	0.0000000	0.9749734
## 33	0.1783123	0.3853122	0.6179044	0.7363609	0.2748575	0.4617778	0.7706244
## 34	0.4830532	0.7245798	0.9661064	1.0868697	0.6038165	0.2888423	1.0947590
## 35	0.2415266	0.0000000	0.2415266	0.3622899	0.1207633	0.6583619	0.3853122
## 36	0.1207633	0.1207633	0.3622899	0.4830532	0.0000000	0.5497149	0.5005516
## 37	0.4830532	0.7245798	0.9661064	1.0868697	0.6038165	0.2888423	1.0947590
## 38	0.2748575	0.1311927	0.2748575	0.3853122	0.1783123	0.7207621	0.4473254
## 39	0.8453431	0.6038165	0.3622899	0.2415266	0.7245798	1.2358089	0.2748575
## 40	0.0000000	0.2415266	0.4830532	0.6038165	0.1207633	0.4473254	0.6179044
## 41	0.1783123	0.1783123	0.3853122	0.5005516	0.1311927	0.5005516	0.4830532
## 42	0.7363609	0.5005516	0.2748575	0.1783123	0.6179044	1.0947590	0.1207633
## 43	0.8453431	0.6038165	0.3622899	0.2415266	0.7245798	1.2358089	0.2748575
## 44	0.5384868	0.5384868	0.6376820	0.7132494	0.5247707	0.5497149	0.6230923
## 45	0.2623854	0.3566247	0.5497149	0.6583619	0.2888423	0.3622899	0.6179044
## 46	0.3853122	0.1783123	0.1783123	0.2748575	0.2748575	0.7363609	0.2415266
## 47	0.0000000	0.2415266	0.4830532	0.6038165	0.1207633	0.4473254	0.6179044
## 48	0.6038165	0.3622899	0.1207633	0.0000000	0.4830532	1.0011032	0.1311927
## 49	0.2415266	0.4830532	0.7245798	0.8453431	0.3622899	0.2888423	0.8554627
## 50	0.1207633	0.1207633	0.3622899	0.4830532	0.0000000	0.5497149	0.5005516
## 51	2.7826609	2.9849461	3.1926910	3.2982894	2.8830485	2.3355081	3.2377227
## 52	2.3180605	2.4879904	2.6689806	2.7629495	2.4014926	1.8817469	2.6839526
## 53	2.7629495	2.9567307	3.1571021	3.2593809	2.8589315	2.3160188	3.1926910
## 54	1.5218193	1.6148095	1.7366506	1.8066210	1.5643491	1.1868937	1.7036542
## 55	2.4014926	2.5772452	2.7629495	2.8589315	2.4879904	1.9614358	2.7826609
## 56	1.6148095	1.7366506	1.8817469	1.9614358	1.6724828	1.2350656	1.8670267
## 57	2.3395558	2.4963729	2.6658777	2.7546631	2.4162193	1.9130459	2.6689806
## 58	1.0769737	1.0495414	1.0769737	1.1103113	1.0564663	0.9920731	0.9872276
## 59	2.3160188	2.5094431	2.7105971	2.8135571	2.4116468	1.8692770	2.7485745
## 60	1.5789371	1.6154605	1.6861355	1.7330535	1.5927315	1.3339741	1.6148095
## 61	1.0564663	1.0564663	1.1103113	1.1553690	1.0495414	0.9235557	1.0376439
## 62	1.9601296	2.0897665	2.2380371	2.3180605	2.0223829	1.5643491	2.2233121
## 63	1.5109014	1.6929778	1.8884372	1.9899641	1.5999733	1.0698741	1.9240022
## 64	1.9841462	2.1397482	2.3101685	2.3999600	2.0598775	1.5606911	2.3160188
## 65	1.5643491	1.6724828	1.8066210	1.8817469	1.6148095	1.2051838	1.7831235
## 66	2.4923694	2.6839526	2.8830485	2.9849461	2.5871161	2.0459252	2.9178825

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## 67 1.8092377 1.9035103 2.0223829 2.0897665 1.8530414 1.4631913 1.9841462
## 68 1.3476432 1.5109014 1.6929778 1.7893018 1.4264988 0.9235557 1.7156422
## 69 2.1618010 2.3180605 2.4879904 2.5772452 2.2380371 1.7366506 2.4923694
## 70 1.3261702 1.4521494 1.6048111 1.6889377 1.3853335 0.9495786 1.5999733
## 71 2.3107380 2.4216784 2.5507278 2.6212224 2.3637755 1.9334042 2.5173894
## 72 1.8817469 2.0451546 2.2228391 2.3160188 1.9614358 1.4521494 2.2366272
## 73 2.2380371 2.4014926 2.5772452 2.6689806 2.3180605 1.8066210 2.5871161
## 74 1.7831235 1.9547929 2.1399934 2.2366272 1.8670267 1.3476432 2.1622864
## 75 2.1324286 2.3160188 2.5094431 2.6091640 2.2228391 1.6889377 2.5389555
## 76 2.3999600 2.5871161 2.7826609 2.8830485 2.4923694 1.9547929 2.8135571
## 77 2.5871161 2.7826609 2.9849461 3.0882043 2.6839526 2.1399934 3.0234320
## 78 2.7579047 2.9321894 3.1154617 3.2099901 2.8438183 2.3180605 3.1312781
## 79 2.0223829 2.1618010 2.3180605 2.4014926 2.0897665 1.6148095 2.3101685
## 80 1.2753639 1.4264988 1.5999733 1.6929778 1.3476432 0.8665268 1.6149307
## 81 1.2757247 1.3853335 1.5256129 1.6048111 1.3261702 0.9262549 1.5109014
## 82 1.1553690 1.2753639 1.4264988 1.5109014 1.2108392 0.7963658 1.4229020
## 83 1.5606911 1.7036542 1.8670267 1.9547929 1.6292678 1.1553690 1.8692770
## 84 2.1341845 2.2667365 2.4162193 2.4963729 2.1981436 1.7330535 2.4014926
## 85 1.7435597 1.8092377 1.9035103 1.9601296 1.7725933 1.4431194 1.8471113
## 86 2.1341845 2.2667365 2.4162193 2.4963729 2.1981436 1.7330535 2.4014926
## 87 2.5772452 2.7629495 2.9567307 3.0561727 2.6689806 2.1324286 2.9849461
## 88 2.0451546 2.2228391 2.4116468 2.5094431 2.1324286 1.6048111 2.4363626
## 89 1.5643491 1.6724828 1.8066210 1.8817469 1.6148095 1.2051838 1.7831235
## 90 1.5218193 1.6148095 1.7366506 1.8066210 1.5643491 1.1868937 1.7036542
## 91 1.3980316 1.4987220 1.6292678 1.7036542 1.4442113 1.0564663 1.6048111
## 92 1.9841462 2.1397482 2.3101685 2.3999600 2.0598775 1.5606911 2.3160188
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## 97 1.6148095 1.7366506 1.8817469 1.9614358 1.6724828 1.2350656 1.8670267
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## 101 3.3473806 3.4588023 3.5830629 3.6496033 3.4014043 2.9616829 3.5419043
## 102 2.3851067 2.4810108 2.5959133 2.6597354 2.4305330 2.0263100 2.5507278
## 103 3.4708599 3.6430626 3.8227755 3.9151268 3.5559532 3.0313099 3.8329351
## 104 2.5507278 2.6952864 2.8529976 2.9361301 2.6212224 2.1341845 2.8438183
## 105 3.1213823 3.2585355 3.4073084 3.4855918 3.1884098 2.7094591 3.3879346
## 106 3.9151268 4.1042576 4.2986408 4.3975852 4.0089887 3.4688148 4.3245728
## 107 1.9826565 1.9678901 1.9826565 2.0009612 1.9715921 1.8092377 1.8720875
## 108 3.3859557 3.5786035 3.7768745 3.8778500 3.4815177 2.9390816 3.8084332
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## 110 3.9416162 4.1011840 4.2684602 4.3547130 4.0203781 3.5093337 4.2648572
## 111 2.9042989 3.0512257 3.2096223 3.2926091 2.9762193 2.4841066 3.1998237
## 112 2.7274139 2.8732348 3.0313099 3.1143654 2.7986691 2.3088892 3.0218027
## 113 3.2292521 3.3879346 3.5559532 3.6430626 3.3073405 2.7986691 3.5545856
## 114 2.4701311 2.5514493 2.6523404 2.7094591 2.5082139 2.1301180 2.5959133
## 115 3.0074873 3.0840980 3.1772648 3.2296189 3.0436387 2.6679482 3.1129316
## 116 3.1709522 3.2972153 3.4358391 3.5093337 3.2324448 2.7697898 3.4073084
## 117 2.6952864 2.8529976 3.0218027 3.1098057 2.7726338 2.2667365 3.0228024
## 118 4.0918504 4.2799868 4.4732544 4.5716097 4.1852335 3.6457302 4.4975956
## 119 4.1771894 4.3616464 4.5514478 4.6481488 4.2687061 3.7320471 4.5716097
## 120 2.0223829 2.1618010 2.3180605 2.4014926 2.0897665 1.6148095 2.3101685

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## 121 3.5093337 3.6638490 3.8273786 3.9121729 3.5853901 3.0813483 3.8209193
## 122 2.4374426 2.5082139 2.5995803 2.6523404 2.4701311 2.1129325 2.5362386
## 123 3.9287611 4.1243438 4.3245728 4.4262331 4.0259290 3.4815177 4.3576527
## 124 2.5507278 2.6952864 2.8529976 2.9361301 2.6212224 2.1341845 2.8438183
## 125 3.1538555 3.3073405 3.4708599 3.5559532 3.2292521 2.7274139 3.4652528
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## 127 2.4841066 2.6212224 2.7726338 2.8529976 2.5507278 2.0752877 2.7579047
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## 129 2.9458473 3.0813483 3.2292521 3.3073405 3.0119393 2.5362386 3.2096223
## 130 3.1312781 3.3299061 3.5338813 3.6375939 3.2298614 2.6839526 3.5731469
## 131 3.5621547 3.7535301 3.9504052 4.0506553 3.6571004 3.1154617 3.9799282
## 132 4.1243438 4.3245728 4.5288318 4.6323065 4.2239184 3.6770924 4.5668216
## 133 3.0576568 3.1884098 3.3315640 3.4073084 3.1213823 2.6523404 3.3073405
## 134 2.2380371 2.4014926 2.5772452 2.6689806 2.3180605 1.8066210 2.5871161
## 135 1.9841462 2.1397482 2.3101685 2.3999600 2.0598775 1.5606911 2.3160188
## 136 4.1771894 4.3616464 4.5514478 4.6481488 4.2687061 3.7320471 4.5716097
## 137 3.2296189 3.3449656 3.4733012 3.5419043 3.2855795 2.8400516 3.4358391
## 138 2.6212224 2.7726338 2.9361301 3.0218027 2.6952864 2.1981436 2.9321894
## 139 2.3637755 2.4841066 2.6212224 2.6952864 2.4216784 1.9744552 2.5944193
## 140 3.3073405 3.4708599 3.6430626 3.7320471 3.3879346 2.8732348 3.6457302
## 141 3.4733012 3.6132420 3.7634937 3.8421114 3.5419043 3.0576568 3.7445593
## 142 3.5093337 3.6638490 3.8273786 3.9121729 3.5853901 3.0813483 3.8209193
## 143 2.3851067 2.4810108 2.5959133 2.6597354 2.4305330 2.0263100 2.5507278
## 144 3.4358391 3.5853901 3.7445593 3.8273786 3.5093337 3.0119393 3.7340534
## 145 3.5830629 3.7188757 3.8650231 3.9416162 3.6496033 3.1709522 3.8421114
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## 147 2.6597354 2.7986691 2.9508601 3.0313099 2.7274139 2.2480831 2.9361301
## 148 2.9042989 3.0512257 3.2096223 3.2926091 2.9762193 2.4841066 3.1998237
## 149 3.0585808 3.1709522 3.2972153 3.3650744 3.1129316 2.6733349 3.2585355
## 150 2.3107380 2.4216784 2.5507278 2.6212224 2.3637755 1.9334042 2.5173894
##      8      9      10      11      12      13      14
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9 0.7245798
## 10 0.1783123 0.6179044
## 11 0.4830532 1.2076330 0.6179044
## 12 0.2415266 0.4830532 0.1783123 0.7245798
## 13 0.2748575 0.5005516 0.1207633 0.7363609 0.1311927
## 14 0.8554627 0.1783123 0.7245798 1.3348589 0.6179044 0.6038165
## 15 0.9661064 1.6906862 1.0947590 0.4830532 1.2076330 1.2147383 1.8161941
## 16 0.8851277 1.5916985 1.0431995 0.4473254 1.1180930 1.1559366 1.7358927
## 17 0.5497149 1.2358089 0.7207621 0.2623854 0.7706244 0.8245724 1.3854748
## 18 0.1783123 0.8554627 0.3566247 0.3853122 0.3853122 0.4473254 1.0011032
## 19 0.8554627 1.5753950 1.0011032 0.3853122 1.0947590 1.1180930 1.7109255
## 20 0.1783123 0.8554627 0.3566247 0.3853122 0.3853122 0.4473254 1.0011032
## 21 0.4830532 1.2076330 0.6179044 0.0000000 0.7245798 0.7363609 1.3348589
## 22 0.2888423 0.8851277 0.4617778 0.4473254 0.4473254 0.5349370 1.0431995
## 23 0.4830532 0.2415266 0.3853122 0.9661064 0.2415266 0.2748575 0.3853122
## 24 0.4116885 0.9324745 0.5776845 0.5349370 0.5349370 0.6376820 1.0994298

```

## 25	0.2415266	0.4830532	0.1783123	0.7245798	0.0000000	0.1311927	0.6179044
## 26	0.0000000	0.7245798	0.1783123	0.4830532	0.2415266	0.2748575	0.8554627
## 27	0.2623854	0.7706244	0.4116885	0.5497149	0.3566247	0.4617778	0.9324745
## 28	0.2415266	0.9661064	0.3853122	0.2415266	0.4830532	0.5005516	1.0947590
## 29	0.2415266	0.9661064	0.3853122	0.2415266	0.4830532	0.5005516	1.0947590
## 30	0.3622899	0.3622899	0.2748575	0.8453431	0.1207633	0.1783123	0.5005516
## 31	0.2415266	0.4830532	0.1783123	0.7245798	0.0000000	0.1311927	0.6179044
## 32	0.5497149	1.2358089	0.7207621	0.2623854	0.7706244	0.8245724	1.3854748
## 33	0.2748575	0.9749734	0.3622899	0.2748575	0.5005516	0.4830532	1.0868697
## 34	0.6038165	1.3283963	0.7363609	0.1207633	0.8453431	0.8554627	1.4550860
## 35	0.1207633	0.6038165	0.1311927	0.6038165	0.1207633	0.1783123	0.7363609
## 36	0.0000000	0.7245798	0.1783123	0.4830532	0.2415266	0.2748575	0.8554627
## 37	0.6038165	1.3283963	0.7363609	0.1207633	0.8453431	0.8554627	1.4550860
## 38	0.1783123	0.6179044	0.0000000	0.6179044	0.1783123	0.1207633	0.7245798
## 39	0.7245798	0.0000000	0.6179044	1.2076330	0.4830532	0.5005516	0.1783123
## 40	0.1207633	0.8453431	0.2748575	0.3622899	0.3622899	0.3853122	0.9749734
## 41	0.1311927	0.7363609	0.2888423	0.5005516	0.2748575	0.3566247	0.8851277
## 42	0.6179044	0.1783123	0.5497149	1.0947590	0.3853122	0.4473254	0.3566247
## 43	0.7245798	0.0000000	0.6179044	1.2076330	0.4830532	0.5005516	0.1783123
## 44	0.5247707	0.8946509	0.6669871	0.7132494	0.5776845	0.6990158	1.0699967
## 45	0.2888423	0.8851277	0.4617778	0.4473254	0.4473254	0.5349370	1.0431995
## 46	0.2748575	0.5005516	0.2888423	0.7363609	0.1311927	0.2623854	0.6583619
## 47	0.1207633	0.8453431	0.2748575	0.3622899	0.3622899	0.3853122	0.9749734
## 48	0.4830532	0.2415266	0.3853122	0.9661064	0.2415266	0.2748575	0.3853122
## 49	0.3622899	1.0868697	0.5005516	0.1207633	0.6038165	0.6179044	1.2147383
## 50	0.0000000	0.7245798	0.1783123	0.4830532	0.2415266	0.2748575	0.8554627
## 51	2.8830485	3.5124195	3.0561727	2.4923694	3.0882043	3.1571021	3.6797172
## 52	2.4014926	2.9567307	2.5796913	2.0897665	2.5772452	2.6658777	3.1312781
## 53	2.8589315	3.4675072	3.0342985	2.4879904	3.0561727	3.1312781	3.6375939
## 54	1.5643491	1.9614358	1.7330535	1.4481635	1.6724828	1.7869146	2.1397482
## 55	2.4879904	3.0561727	2.6658777	2.1618010	2.6689806	2.7546631	3.2298614
## 56	1.6724828	2.1324286	1.8471113	1.4879004	1.8066210	1.9130459	2.3101685
## 57	2.4162193	2.9390816	2.5944193	2.1341845	2.5796913	2.6746852	3.1154617
## 58	1.0564663	1.2108392	1.1807341	1.2108392	1.0564663	1.1868937	1.3853335
## 59	2.4116468	3.0234320	2.5871161	2.0451546	2.6091640	2.6839526	3.1926910
## 60	1.5927315	1.8471113	1.7435597	1.5927315	1.6467541	1.7725933	2.0223829
## 61	1.0495414	1.2753639	1.1868937	1.1553690	1.0769737	1.2051838	1.4521494
## 62	2.0223829	2.4879904	2.1981436	1.8092377	2.1618010	2.2667365	2.6658777
## 63	1.5999733	2.1988596	1.7772928	1.2753639	1.7893018	1.8692770	2.3682998
## 64	2.0598775	2.5871161	2.2380371	1.7869146	2.2233121	2.3180605	2.7629495
## 65	1.6148095	2.0451546	1.7869146	1.4631913	1.7366506	1.8471113	2.2233121
## 66	2.5871161	3.1926910	2.7629495	2.2233121	2.7826609	2.8589315	3.3628858
## 67	1.8530414	2.2380371	2.0218958	1.7225219	1.9601296	2.0752877	2.4162193
## 68	1.4264988	1.9899641	1.6048111	1.1553690	1.5999733	1.6889377	2.1622864
## 69	2.2380371	2.7629495	2.4162193	1.9601296	2.4014926	2.4963729	2.9390816
## 70	1.3853335	1.8692770	1.5606911	1.2051838	1.5256129	1.6292678	2.0459252
## 71	2.3637755	2.7726338	2.5362386	2.1842031	2.4841066	2.5959133	2.9508601
## 72	1.9614358	2.5094431	2.1397482	1.6724828	2.1324286	2.2233121	2.6839526
## 73	2.3180605	2.8589315	2.4963729	2.0223829	2.4879904	2.5796913	3.0342985
## 74	1.8670267	2.4363626	2.0451546	1.5606911	2.0459252	2.1324286	2.6091640
## 75	2.2228391	2.8135571	2.3999600	1.8817469	2.4116468	2.4923694	2.9849461
## 76	2.4923694	3.0882043	2.6689806	2.1397482	2.6839526	2.7629495	3.2593809
## 77	2.6839526	3.2982894	2.8589315	2.3101685	2.8830485	2.9567307	3.4675072
## 78	2.8438183	3.4040283	3.0218027	2.5173894	3.0228024	3.1098057	3.5786035

79 2.0897665 2.5772452 2.2667365 1.8530414 2.2380371 2.3395558 2.7546631
 ## 80 1.3476432 1.8884372 1.5256129 1.1103113 1.5109014 1.6048111 2.0621719
 ## 81 1.3261702 1.7772928 1.4987220 1.1868937 1.4521494 1.5606911 1.9547929
 ## 82 1.2108392 1.6929778 1.3853335 1.0564663 1.3476432 1.4521494 1.8692770
 ## 83 1.6292678 2.1399934 1.8066210 1.3980316 1.7831235 1.8817469 2.3160188
 ## 84 2.1981436 2.6658777 2.3742848 1.9744552 2.3395558 2.4439016 2.8438183
 ## 85 1.7725933 2.0897665 1.9334042 1.7055048 1.8530414 1.9744552 2.2667365
 ## 86 2.1981436 2.6658777 2.3742848 1.9744552 2.3395558 2.4439016 2.8438183
 ## 87 2.6689806 3.2593809 2.8458041 2.3180605 2.8589315 2.9390816 3.4312843
 ## 88 2.1324286 2.7105971 2.3101685 1.8066210 2.3160188 2.3999600 2.8830485
 ## 89 1.6148095 2.0451546 1.7869146 1.4631913 1.7366506 1.8471113 2.2233121
 ## 90 1.5643491 1.9614358 1.7330535 1.4481635 1.6724828 1.7869146 2.1397482
 ## 91 1.4442113 1.8670267 1.6148095 1.3174732 1.5606911 1.6724828 2.0451546
 ## 92 2.0598775 2.5871161 2.2380371 1.7869146 2.2233121 2.3180605 2.7629495
 ## 93 1.6292678 2.1399934 1.8066210 1.3980316 1.7831235 1.8817469 2.3160188
 ## 94 1.0495414 1.2753639 1.1868937 1.1553690 1.0769737 1.2051838 1.4521494
 ## 95 1.6148095 2.0451546 1.7869146 1.4631913 1.7366506 1.8471113 2.2233121
 ## 96 1.5606911 2.0459252 1.7366506 1.3610312 1.7036542 1.8066210 2.2228391
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 ## 101 3.4014043 3.7907303 3.5738291 3.2072074 3.5194094 3.6325176 3.9682924
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 ## 103 3.5559532 4.1042576 3.7340534 3.2292521 3.7320471 3.8209193 4.2799868
 ## 104 2.6212224 3.1098057 2.7986691 2.3637755 2.7726338 2.8732348 3.2874974
 ## 105 3.1884098 3.6491166 3.3650744 2.9409597 3.3315640 3.4358391 3.8273786
 ## 106 4.0089887 4.5986024 4.1852335 3.6430626 4.2008378 4.2799868 4.7714084
 ## 107 1.9715921 2.0584426 2.0990828 2.0584426 1.9715921 2.1025538 2.2206226
 ## 108 3.4815177 4.0830263 3.6571004 3.1098057 3.6770924 3.7535301 4.2543538
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 ## 110 4.0203781 4.5319502 4.1986488 3.7188757 4.1839154 4.2794964 4.7094362
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 ## 118 4.1852335 4.7714084 4.3616464 3.8209193 4.3760213 4.4559213 4.9446055
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 ## 127 2.5507278 3.0218027 2.7274139 2.3107380 2.6952864 2.7986691 3.1998237
 ## 128 2.4841066 2.9361301 2.6597354 2.2629082 2.6212224 2.7274139 3.1143654
 ## 129 3.0119393 3.4708599 3.1884098 2.7697898 3.1538555 3.2585355 3.6491166
 ## 130 3.2298614 3.8480043 3.4040283 2.8458041 3.4312843 3.5032622 4.0171565
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## 133 3.1213823 3.5662470 3.2972153 2.8884226 3.2585355 3.3650744 3.7445593
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## 143 2.4305330 2.7986691 2.5995803 2.2819880 2.5362386 2.6523404 2.9762193
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## 148 2.9762193 3.4652528 3.1538555 2.7094591 3.1290962 3.2292521 3.6430626
## 149 3.1129316 3.5093337 3.2855795 2.9195276 3.2324448 3.3449656 3.6871558
## 150 2.3637755 2.7726338 2.5362386 2.1842031 2.4841066 2.5959133 2.9508601
##      15      16      17      18      19      20      21
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
## 14
## 15
## 16 0.2888423
## 17 0.5497149 0.3622899
## 18 0.8554627 0.7363609 0.3853122
## 19 0.1783123 0.1311927 0.3853122 0.7245798
## 20 0.8554627 0.7363609 0.3853122 0.0000000 0.7245798
## 21 0.4830532 0.4473254 0.2623854 0.3853122 0.3853122 0.3853122
## 22 0.8851277 0.7245798 0.3622899 0.1311927 0.7363609 0.1311927 0.4473254
## 23 1.4491596 1.3540616 1.0011032 0.6179044 1.3348589 0.6179044 0.9661064
## 24 0.9324745 0.7363609 0.3853122 0.2623854 0.7706244 0.2623854 0.5349370
## 25 1.2076330 1.1180930 0.7706244 0.3853122 1.0947590 0.3853122 0.7245798
## 26 0.9661064 0.8851277 0.5497149 0.1783123 0.8554627 0.1783123 0.4830532
## 27 1.0011032 0.8453431 0.4830532 0.1783123 0.8554627 0.1783123 0.5497149
## 28 0.7245798 0.6583619 0.3566247 0.1783123 0.6179044 0.1783123 0.2415266
## 29 0.7245798 0.6583619 0.3566247 0.1783123 0.6179044 0.1783123 0.2415266
## 30 1.3283963 1.2358089 0.8851277 0.5005516 1.2147383 0.5005516 0.8453431
## 31 1.2076330 1.1180930 0.7706244 0.3853122 1.0947590 0.3853122 0.7245798
## 32 0.5497149 0.3622899 0.0000000 0.3853122 0.3853122 0.3853122 0.2623854
## 33 0.7363609 0.7207621 0.4617778 0.2888423 0.6583619 0.2888423 0.2748575
## 34 0.3622899 0.3566247 0.2888423 0.5005516 0.2748575 0.5005516 0.1207633
## 35 1.0868697 1.0011032 0.6583619 0.2748575 0.9749734 0.2748575 0.6038165
## 36 0.9661064 0.8851277 0.5497149 0.1783123 0.8554627 0.1783123 0.4830532

```

## 37	0.3622899	0.3566247	0.2888423	0.5005516	0.2748575	0.5005516	0.1207633
## 38	1.0947590	1.0431995	0.7207621	0.3566247	1.0011032	0.3566247	0.6179044
## 39	1.6906862	1.5916985	1.2358089	0.8554627	1.5753950	0.8554627	1.2076330
## 40	0.8453431	0.7706244	0.4473254	0.1311927	0.7363609	0.1311927	0.3622899
## 41	0.9749734	0.8554627	0.5005516	0.1207633	0.8453431	0.1207633	0.5005516
## 42	1.5753950	1.4550860	1.0947590	0.7245798	1.4491596	0.7245798	1.0947590
## 43	1.6906862	1.5916985	1.2358089	0.8554627	1.5753950	0.8554627	1.2076330
## 44	1.0994298	0.8851277	0.5497149	0.4116885	0.9324745	0.4116885	0.7132494
## 45	0.8851277	0.7245798	0.3622899	0.1311927	0.7363609	0.1311927	0.4473254
## 46	1.2147383	1.0947590	0.7363609	0.3622899	1.0868697	0.3622899	0.7363609
## 47	0.8453431	0.7706244	0.4473254	0.1311927	0.7363609	0.1311927	0.3622899
## 48	1.4491596	1.3540616	1.0011032	0.6179044	1.3348589	0.6179044	0.9661064
## 49	0.6038165	0.5497149	0.2888423	0.2748575	0.5005516	0.2748575	0.1207633
## 50	0.9661064	0.8851277	0.5497149	0.1783123	0.8554627	0.1783123	0.4830532
## 51	2.1397482	2.0459252	2.3355081	2.7105971	2.1324286	2.7105971	2.4923694
## 52	1.8530414	1.6724828	1.8817469	2.2233121	1.7869146	2.2233121	2.0897665
## 53	2.1618010	2.0451546	2.3160188	2.6839526	2.1397482	2.6839526	2.4879904
## 54	1.4879004	1.2051838	1.1868937	1.3980316	1.3339741	1.3980316	1.4481635
## 55	1.9035103	1.7366506	1.9614358	2.3101685	1.8471113	2.3101685	2.1618010
## 56	1.4481635	1.1807341	1.2350656	1.4987220	1.3119268	1.4987220	1.4879004
## 57	1.9334042	1.7330535	1.9130459	2.2380371	1.8530414	2.2380371	2.1341845
## 58	1.5109014	1.2461847	0.9920731	0.9495786	1.3329389	0.9495786	1.2108392
## 59	1.7366506	1.6048111	1.8692770	2.2366272	1.7036542	2.2366272	2.0451546
## 60	1.7330535	1.4442113	1.3339741	1.4481635	1.5643491	1.4481635	1.5927315
## 61	1.4264988	1.1550843	0.9235557	0.9262549	1.2481864	0.9262549	1.1553690
## 62	1.7097750	1.4631913	1.5643491	1.8471113	1.5927315	1.8471113	1.8092377
## 63	1.0769737	0.8665268	1.0698741	1.4229020	0.9872276	1.4229020	1.2753639
## 64	1.6154605	1.3980316	1.5606911	1.8817469	1.5218193	1.8817469	1.7869146
## 65	1.4631913	1.1868937	1.2051838	1.4442113	1.3174732	1.4442113	1.4631913
## 66	1.9130459	1.7831235	2.0459252	2.4116468	1.8817469	2.4116468	2.2233121
## 67	1.7225219	1.4481635	1.4631913	1.6861355	1.5789371	1.6861355	1.7225219
## 68	1.0495414	0.7963658	0.9235557	1.2481864	0.9262549	1.2481864	1.1553690
## 69	1.7725933	1.5643491	1.7366506	2.0598775	1.6861355	2.0598775	1.9601296
## 70	1.2051838	0.9262549	0.9495786	1.2108392	1.0564663	1.2108392	1.2051838
## 71	2.1025538	1.8525098	1.9334042	2.1922484	1.9826565	2.1922484	2.1842031
## 72	1.4879004	1.2757247	1.4521494	1.7831235	1.3980316	1.7831235	1.6724828
## 73	1.8092377	1.6148095	1.8066210	2.1397482	1.7330535	2.1397482	2.0223829
## 74	1.3610312	1.1553690	1.3476432	1.6889377	1.2757247	1.6889377	1.5606911
## 75	1.6148095	1.4521494	1.6889377	2.0459252	1.5606911	2.0459252	1.8817469
## 76	1.8471113	1.7036542	1.9547929	2.3160188	1.8066210	2.3160188	2.1397482
## 77	1.9841462	1.8670267	2.1399934	2.5094431	1.9614358	2.5094431	2.3101685
## 78	2.2480831	2.0897665	2.3180605	2.6658777	2.1981436	2.6658777	2.5173894
## 79	1.7225219	1.4879004	1.6148095	1.9130459	1.6154605	1.9130459	1.8530414
## 80	1.0564663	0.7871561	0.8665268	1.1697779	0.9183487	1.1697779	1.1103113
## 81	1.2350656	0.9495786	0.9262549	1.1553690	1.0769737	1.1553690	1.1868937
## 82	1.1103113	0.8233770	0.7963658	1.0376439	0.9495786	1.0376439	1.0564663
## 83	1.3119268	1.0564663	1.1553690	1.4521494	1.1868937	1.4521494	1.3980316
## 84	1.8525098	1.6154605	1.7330535	2.0223829	1.7435597	2.0223829	1.9744552
## 85	1.7725933	1.4879004	1.4431194	1.6154605	1.6154605	1.6154605	1.7055048
## 86	1.8525098	1.6154605	1.7330535	2.0223829	1.7435597	2.0223829	1.9744552
## 87	2.0223829	1.8817469	2.1324286	2.4923694	1.9841462	2.4923694	2.3180605
## 88	1.5643491	1.3853335	1.6048111	1.9547929	1.4987220	1.9547929	1.8066210
## 89	1.4631913	1.1868937	1.2051838	1.4442113	1.3174732	1.4442113	1.4631913
## 90	1.4879004	1.2051838	1.1868937	1.3980316	1.3339741	1.3980316	1.4481635

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## 91 1.3610312 1.0769737 1.0564663 1.2757247 1.2051838 1.2757247 1.3174732
## 92 1.6154605 1.3980316 1.5606911 1.8817469 1.5218193 1.8817469 1.7869146
## 93 1.3119268 1.0564663 1.1553690 1.4521494 1.1868937 1.4521494 1.3980316
## 94 1.4264988 1.1550843 0.9235557 0.9262549 1.2481864 0.9262549 1.1553690
## 95 1.4631913 1.1868937 1.2051838 1.4442113 1.3174732 1.4442113 1.4631913
## 96 1.3174732 1.0495414 1.1103113 1.3853335 1.1807341 1.3853335 1.3610312
## 97 1.4481635 1.1807341 1.2350656 1.4987220 1.3119268 1.4987220 1.4879004
## 98 1.5218193 1.3261702 1.5256129 1.8670267 1.4442113 1.8670267 1.7366506
## 99 1.4521494 1.1697779 0.9872276 1.0495414 1.2753639 1.0495414 1.2350656
## 100 1.4481635 1.1807341 1.2350656 1.4987220 1.3119268 1.4987220 1.4879004
## 101 3.0772533 2.8487358 2.9616829 3.2296189 2.9758009 3.2296189 3.2072074
## 102 2.2302755 1.9715921 2.0263100 2.2629082 2.1025538 2.2629082 2.2819880
## 103 2.9458473 2.7986691 3.0313099 3.3778754 2.9042989 3.3778754 3.2292521
## 104 2.1842031 1.9744552 2.1341845 2.4439016 2.0970473 2.4439016 2.3637755
## 105 2.7566669 2.5514493 2.7094591 3.0119393 2.6733349 3.0119393 2.9409597
## 106 3.3073405 3.1998237 3.4688148 3.8329351 3.2926091 3.8329351 3.6430626
## 107 2.2480831 1.9601296 1.8092377 1.8525098 2.0752877 1.8525098 2.0584426
## 108 2.7726338 2.6658777 2.9390816 3.3062273 2.7579047 3.3062273 3.1098057
## 109 2.3637755 2.1981436 2.4162193 2.7579047 2.3088892 2.7579047 2.6212224
## 110 3.4588023 3.2972153 3.5093337 3.8421114 3.4075980 3.8421114 3.7188757
## 111 2.5082139 2.3107380 2.4841066 2.7986691 2.4305330 2.7986691 2.7094591
## 112 2.3450255 2.1417742 2.3088892 2.6212224 2.2629082 2.6212224 2.5362386
## 113 2.7697898 2.5959133 2.7986691 3.1290962 2.7094591 3.1290962 3.0119393
## 114 2.3645540 2.0990828 2.1301180 2.3450255 2.2302755 2.3450255 2.3890973
## 115 2.8862389 2.6266311 2.6679482 2.8818197 2.7576917 2.8818197 2.9263826
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## 120 1.7225219 1.4879004 1.6148095 1.9130459 1.6154605 1.9130459 1.8530414
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## 125 2.7193095 2.5362386 2.7274139 3.0512257 2.6523404 3.0512257 2.9458473
## 126 2.6952864 2.5796913 2.8458041 3.2099901 2.6746852 3.2099901 3.0218027
## 127 2.1539473 1.9334042 2.0752877 2.3742848 2.0584426 2.3742848 2.3107380
## 128 2.1301180 1.8991572 2.0218958 2.3088892 2.0263100 2.3088892 2.2629082
## 129 2.5958378 2.3851067 2.5362386 2.8356992 2.5082139 2.8356992 2.7697898
## 130 2.4963729 2.3999600 2.6839526 3.0561727 2.4879904 3.0561727 2.8458041
## 131 2.9508601 2.8438183 3.1154617 3.4815177 2.9361301 3.4815177 3.2874974
## 132 3.4652528 3.3859557 3.6770924 4.0506553 3.4688148 4.0506553 3.8329351
## 133 2.7220623 2.5082139 2.6523404 2.9458473 2.6321024 2.9458473 2.8884226
## 134 1.8092377 1.6148095 1.8066210 2.1397482 1.7330535 2.1397482 2.0223829
## 135 1.6154605 1.3980316 1.5606911 1.8817469 1.5218193 1.8817469 1.7869146
## 136 3.5853901 3.4708599 3.7320471 4.0918504 3.5662470 4.0918504 3.9121729
## 137 2.9487233 2.7220623 2.8400516 3.1129316 2.8487358 3.1129316 3.0840980
## 138 2.2206226 2.0218958 2.1981436 2.5173894 2.1417742 2.5173894 2.4216784
## 139 2.1129325 1.8720875 1.9744552 2.2480831 2.0009612 2.2480831 2.2206226
## 140 2.8245345 2.6597354 2.8732348 3.2096223 2.7706670 3.2096223 3.0813483
## 141 3.0840980 2.8884226 3.0576568 3.3650744 3.0080986 3.3650744 3.2855795
## 142 3.0585808 2.8833005 3.0813483 3.4073084 2.9974441 3.4073084 3.2972153
## 143 2.2302755 1.9715921 2.0263100 2.2629082 2.1025538 2.2629082 2.2819880
## 144 3.0080986 2.8245345 3.0119393 3.3315640 2.9409597 3.3315640 3.2324448

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## 145 3.2072074 3.0080986 3.1709522 3.4733012 3.1286982 3.4733012 3.4014043
## 146 2.9616829 2.7697898 2.9458473 3.2585355 2.8884226 3.2585355 3.1709522
## 147 2.3105677 2.0970473 2.2480831 2.5507278 2.2206226 2.5507278 2.4810108
## 148 2.5082139 2.3107380 2.4841066 2.7986691 2.4305330 2.7986691 2.7094591
## 149 2.7970735 2.5647519 2.6733349 2.9409597 2.6924342 2.9409597 2.9195276
## 150 2.1025538 1.8525098 1.9334042 2.1922484 1.9826565 2.1922484 2.1842031
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## 23 0.6583619
## 24 0.1311927 0.7207621
## 25 0.4473254 0.2415266 0.5349370
## 26 0.2888423 0.4830532 0.4116885 0.2415266
## 27 0.1207633 0.5497149 0.1783123 0.3566247 0.2623854
## 28 0.2888423 0.7245798 0.4116885 0.4830532 0.2415266 0.3566247
## 29 0.2888423 0.7245798 0.4116885 0.4830532 0.2415266 0.3566247 0.0000000
## 30 0.5497149 0.1207633 0.6230923 0.1207633 0.3622899 0.4473254 0.6038165
## 31 0.4473254 0.2415266 0.5349370 0.0000000 0.2415266 0.3566247 0.4830532
## 32 0.3622899 1.0011032 0.3853122 0.7706244 0.5497149 0.4830532 0.3566247
## 33 0.4116885 0.7363609 0.5384868 0.5005516 0.2748575 0.4617778 0.1311927
## 34 0.5497149 1.0868697 0.6230923 0.8453431 0.6038165 0.6583619 0.3622899
## 35 0.3566247 0.3622899 0.4617778 0.1207633 0.1207633 0.2888423 0.3622899
## 36 0.2888423 0.4830532 0.4116885 0.2415266 0.0000000 0.2623854 0.2415266
## 37 0.5497149 1.0868697 0.6230923 0.8453431 0.6038165 0.6583619 0.3622899
## 38 0.4617778 0.3853122 0.5776845 0.1783123 0.1783123 0.4116885 0.3853122
## 39 0.8851277 0.2415266 0.9324745 0.4830532 0.7245798 0.7706244 0.9661064
## 40 0.2623854 0.6038165 0.3935780 0.3622899 0.1207633 0.2888423 0.1207633
## 41 0.1783123 0.5005516 0.2888423 0.2748575 0.1311927 0.1311927 0.2748575
## 42 0.7363609 0.1783123 0.7706244 0.3853122 0.6179044 0.6179044 0.8554627
## 43 0.8851277 0.2415266 0.9324745 0.4830532 0.7245798 0.7706244 0.9661064
## 44 0.2888423 0.7132494 0.1783123 0.5776845 0.5247707 0.2623854 0.5776845
## 45 0.0000000 0.6583619 0.1311927 0.4473254 0.2888423 0.1207633 0.2888423
## 46 0.3853122 0.2748575 0.4473254 0.1311927 0.2748575 0.2748575 0.5005516
## 47 0.2623854 0.6038165 0.3935780 0.3622899 0.1207633 0.2888423 0.1207633
## 48 0.6583619 0.0000000 0.7207621 0.2415266 0.4830532 0.5497149 0.7245798

```

## 49	0.3566247	0.8453431	0.4617778	0.6038165	0.3622899	0.4473254	0.1207633
## 50	0.2888423	0.4830532	0.4116885	0.2415266	0.0000000	0.2623854	0.2415266
## 51	2.6430843	3.2982894	2.5804798	3.0882043	2.8830485	2.7485745	2.6839526
## 52	2.1324286	2.7629495	2.0459252	2.5772452	2.4014926	2.2228391	2.2380371
## 53	2.6091640	3.2593809	2.5389555	3.0561727	2.8589315	2.7105971	2.6689806
## 54	1.2757247	1.8066210	1.1553690	1.6724828	1.5643491	1.3261702	1.4879004
## 55	2.2228391	2.8589315	2.1399934	2.6689806	2.4879904	2.3160188	2.3180605
## 56	1.3853335	1.9614358	1.2753639	1.8066210	1.6724828	1.4521494	1.5643491
## 57	2.1397482	2.7546631	2.0451546	2.5796913	2.4162193	2.2233121	2.2667365
## 58	0.8233770	1.1103113	0.6990158	1.0564663	1.0564663	0.7963658	1.1103113
## 59	2.1622864	2.8135571	2.0935345	2.6091640	2.4116468	2.2644159	2.2228391
## 60	1.3174732	1.7330535	1.1868937	1.6467541	1.5927315	1.3339741	1.5743121
## 61	0.7963658	1.1553690	0.6669871	1.0769737	1.0495414	0.7871561	1.0769737
## 62	1.7366506	2.3180605	1.6292678	2.1618010	2.0223829	1.8066210	1.9035103
## 63	1.3419763	1.9899641	1.2694777	1.7893018	1.5999733	1.4415243	1.4264988
## 64	1.7831235	2.3999600	1.6889377	2.2233121	2.0598775	1.8670267	1.9130459
## 65	1.3261702	1.8817469	1.2108392	1.7366506	1.6148095	1.3853335	1.5218193
## 66	2.3355081	2.9849461	2.2644159	2.7826609	2.5871161	2.4363626	2.3999600
## 67	1.5643491	2.0897665	1.4442113	1.9601296	1.8530414	1.6148095	1.7725933
## 68	1.1550843	1.7893018	1.0699967	1.5999733	1.4264988	1.2461847	1.2753639
## 69	1.9614358	2.5772452	1.8670267	2.4014926	2.2380371	2.0451546	2.0897665
## 70	1.0990718	1.6889377	0.9920731	1.5256129	1.3853335	1.1697779	1.2757247
## 71	2.0752877	2.6212224	1.9601296	2.4841066	2.3637755	2.1341845	2.2629082
## 72	1.6889377	2.3160188	1.5999733	2.1324286	1.9614358	1.7772928	1.8066210
## 73	2.0451546	2.6689806	1.9547929	2.4879904	2.3180605	2.1324286	2.1618010
## 74	1.5999733	2.2366272	1.5171493	2.0459252	1.8670267	1.6929778	1.7036542
## 75	1.9643806	2.6091640	1.8884372	2.4116468	2.2228391	2.0621719	2.0451546
## 76	2.2366272	2.8830485	2.1622864	2.6839526	2.4923694	2.3355081	2.3101685
## 77	2.4363626	3.0882043	2.3682998	2.8830485	2.6839526	2.5389555	2.4923694
## 78	2.5772452	3.2099901	2.4923694	3.0228024	2.8438183	2.6689806	2.6746852
## 79	1.8066210	2.4014926	1.7036542	2.2380371	2.0897665	1.8817469	1.9601296
## 80	1.0698741	1.6929778	0.9773965	1.5109014	1.3476432	1.1550843	1.2108392
## 81	1.0376439	1.6048111	0.9235557	1.4521494	1.3261702	1.0990718	1.2350656
## 82	0.9235557	1.5109014	0.8146339	1.3476432	1.2108392	0.9920731	1.1103113
## 83	1.3476432	1.9547929	1.2481864	1.7831235	1.6292678	1.4264988	1.4987220
## 84	1.9130459	2.4963729	1.8066210	2.3395558	2.1981436	1.9841462	2.0752877
## 85	1.4879004	1.9601296	1.3610312	1.8530414	1.7725933	1.5218193	1.7225219
## 86	1.9130459	2.4963729	1.8066210	2.3395558	2.1981436	1.9841462	2.0752877
## 87	2.4116468	3.0561727	2.3355081	2.8589315	2.6689806	2.5094431	2.4879904
## 88	1.8692770	2.5094431	1.7893018	2.3160188	2.1324286	1.9643806	1.9614358
## 89	1.3261702	1.8817469	1.2108392	1.7366506	1.6148095	1.3853335	1.5218193
## 90	1.2757247	1.8066210	1.1553690	1.6724828	1.5643491	1.3261702	1.4879004
## 91	1.1553690	1.7036542	1.0376439	1.5606911	1.4442113	1.2108392	1.3610312
## 92	1.7831235	2.3999600	1.6889377	2.2233121	2.0598775	1.8670267	1.9130459
## 93	1.3476432	1.9547929	1.2481864	1.7831235	1.6292678	1.4264988	1.4987220
## 94	0.7963658	1.1553690	0.6669871	1.0769737	1.0495414	0.7871561	1.0769737
## 95	1.3261702	1.8817469	1.2108392	1.7366506	1.6148095	1.3853335	1.5218193
## 96	1.2753639	1.8670267	1.1697779	1.7036542	1.5606911	1.3476432	1.4442113
## 97	1.3853335	1.9614358	1.2753639	1.8066210	1.6724828	1.4521494	1.5643491
## 98	1.7772928	2.4116468	1.6929778	2.2228391	2.0451546	1.8692770	1.8817469
## 99	0.9183487	1.3261702	0.7871561	1.2350656	1.1868937	0.9262549	1.1868937
## 100	1.3853335	1.9614358	1.2753639	1.8066210	1.6724828	1.4521494	1.5643491
## 101	3.1129316	3.6496033	2.9974441	3.5194094	3.4014043	3.1709522	3.2968970
## 102	2.1417742	2.6597354	2.0218958	2.5362386	2.4305330	2.1922484	2.3450255

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## 103 3.2874974 3.9151268 3.1999467 3.7320471 3.5559532 3.3772139 3.3879346
## 104 2.3395558 2.9361301 2.2380371 2.7726338 2.6212224 2.4162193 2.4841066
## 105 2.9042989 3.4855918 2.7986691 3.3315640 3.1884098 2.9762193 3.0576568
## 106 3.7535301 4.3975852 3.6770924 4.2008378 4.0089887 3.8513323 3.8227755
## 107 1.7225219 2.0009612 1.5927315 1.9715921 1.9715921 1.7097750 2.0009612
## 108 3.2298614 3.8778500 3.1571021 3.6770924 3.4815177 3.3299061 3.2920501
## 109 2.6658777 3.2920501 2.5772452 3.1098057 2.9361301 2.7546631 2.7726338
## 110 3.7445593 4.3547130 3.6491166 4.1839154 4.0203781 3.8273786 3.8650231
## 111 2.6952864 3.2926091 2.5944193 3.1290962 2.9762193 2.7726338 2.8356992
## 112 2.5173894 3.1143654 2.4162193 2.9508601 2.7986691 2.5944193 2.6597354
## 113 3.0313099 3.6430626 2.9361301 3.4708599 3.3073405 3.1143654 3.1538555
## 114 2.2206226 2.7094591 2.0970473 2.5995803 2.5082139 2.2629082 2.4374426
## 115 2.7566669 3.2296189 2.6321024 3.1286982 3.0436387 2.7960631 2.9758009
## 116 2.9458473 3.5093337 2.8356992 3.3650744 3.2324448 3.0119393 3.1129316
## 117 2.4963729 3.1098057 2.4014926 2.9361301 2.7726338 2.5796913 2.6212224
## 118 3.9287611 4.5716097 3.8513323 4.3760213 4.1852335 4.0259290 3.9999334
## 119 4.0089887 4.6481488 3.9287611 4.4559213 4.2687061 4.1042576 4.0871921
## 120 1.8066210 2.4014926 1.7036542 2.2380371 2.0897665 1.8817469 1.9601296
## 121 3.3073405 3.9121729 3.2096223 3.7445593 3.5853901 3.3879346 3.4358391
## 122 2.1842031 2.6523404 2.0584426 2.5514493 2.4701311 2.2206226 2.4103677
## 123 3.7768745 4.4262331 3.7055666 4.2239184 4.0259290 3.8778500 3.8329351
## 124 2.3395558 2.9361301 2.2380371 2.7726338 2.6212224 2.4162193 2.4841066
## 125 2.9508601 3.5559532 2.8529976 3.3879346 3.2292521 3.0313099 3.0813483
## 126 3.1312781 3.7768745 3.0561727 3.5786035 3.3859557 3.2298614 3.1999467
## 127 2.2667365 2.8529976 2.1618010 2.6952864 2.5507278 2.3395558 2.4216784
## 128 2.1981436 2.7726338 2.0897665 2.6212224 2.4841066 2.2667365 2.3637755
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## 130 2.9849461 3.6375939 2.9178825 3.4312843 3.2298614 3.0882043 3.0342985
## 131 3.4040283 4.0506553 3.3299061 3.8513323 3.6571004 3.5032622 3.4688148
## 132 3.9799282 4.6323065 3.9123230 4.4262331 4.2239184 4.0830263 4.0259290
## 133 2.8356992 3.4073084 2.7274139 3.2585355 3.1213823 2.9042989 2.9974441
## 134 2.0451546 2.6689806 1.9547929 2.4879904 2.3180605 2.1324286 2.1618010
## 135 1.7831235 2.3999600 1.6889377 2.2233121 2.0598775 1.8670267 1.9130459
## 136 4.0089887 4.6481488 3.9287611 4.4559213 4.2687061 4.1042576 4.0871921
## 137 2.9974441 3.5419043 2.8833005 3.4075980 3.2855795 3.0576568 3.1772648
## 138 2.4162193 3.0218027 2.3180605 2.8529976 2.6952864 2.4963729 2.5507278
## 139 2.1341845 2.6952864 2.0223829 2.5507278 2.4216784 2.1981436 2.3107380
## 140 3.1143654 3.7320471 3.0218027 3.5559532 3.3879346 3.1998237 3.2292521
## 141 3.2585355 3.8421114 3.1538555 3.6871558 3.5419043 3.3315640 3.4075980
## 142 3.3073405 3.9121729 3.2096223 3.7445593 3.5853901 3.3879346 3.4358391
## 143 2.1417742 2.6597354 2.0218958 2.5362386 2.4305330 2.1922484 2.3450255
## 144 3.2292521 3.8273786 3.1290962 3.6638490 3.5093337 3.3073405 3.3650744
## 145 3.3650744 3.9416162 3.2585355 3.7907303 3.6496033 3.4358391 3.5194094
## 146 3.1538555 3.7445593 3.0512257 3.5853901 3.4358391 3.2292521 3.2972153
## 147 2.4439016 3.0313099 2.3395558 2.8732348 2.7274139 2.5173894 2.5959133
## 148 2.6952864 3.2926091 2.5944193 3.1290962 2.9762193 2.7726338 2.8356992
## 149 2.8245345 3.3650744 2.7094591 3.2324448 3.1129316 2.8833005 3.0080986
## 150 2.0752877 2.6212224 1.9601296 2.4841066 2.3637755 2.1341845 2.2629082
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## 30 0.6038165
## 31 0.4830532 0.1207633
## 32 0.3566247 0.8851277 0.7706244
## 33 0.1311927 0.6179044 0.5005516 0.4617778
## 34 0.3622899 0.9661064 0.8453431 0.2888423 0.3853122
## 35 0.3622899 0.2415266 0.1207633 0.6583619 0.3853122 0.7245798
## 36 0.2415266 0.3622899 0.2415266 0.5497149 0.2748575 0.6038165 0.1207633
## 37 0.3622899 0.9661064 0.8453431 0.2888423 0.3853122 0.0000000 0.7245798
## 38 0.3853122 0.2748575 0.1783123 0.7207621 0.3622899 0.7363609 0.1311927
## 39 0.9661064 0.3622899 0.4830532 1.2358089 0.9749734 1.3283963 0.6038165
## 40 0.1207633 0.4830532 0.3622899 0.4473254 0.1783123 0.4830532 0.2415266
## 41 0.2748575 0.3853122 0.2748575 0.5005516 0.3566247 0.6179044 0.1783123
## 42 0.8554627 0.2748575 0.3853122 1.0947590 0.8851277 1.2147383 0.5005516
## 43 0.9661064 0.3622899 0.4830532 1.2358089 0.9749734 1.3283963 0.6038165
## 44 0.5776845 0.6376820 0.5776845 0.5497149 0.6990158 0.7999867 0.5384868
## 45 0.2888423 0.5497149 0.4473254 0.3622899 0.4116885 0.5497149 0.3566247
## 46 0.5005516 0.1783123 0.1311927 0.7363609 0.5497149 0.8554627 0.1783123
## 47 0.1207633 0.4830532 0.3622899 0.4473254 0.1783123 0.4830532 0.2415266
## 48 0.7245798 0.1207633 0.2415266 1.0011032 0.7363609 1.0868697 0.3622899
## 49 0.1207633 0.7245798 0.6038165 0.2888423 0.1783123 0.2415266 0.4830532
## 50 0.2415266 0.3622899 0.2415266 0.5497149 0.2748575 0.6038165 0.1207633
## 51 2.6839526 3.1926910 3.0882043 2.3355081 2.7629495 2.3999600 2.9849461
## 52 2.2380371 2.6689806 2.5772452 1.8817469 2.3395558 2.0223829 2.4879904
## 53 2.6689806 3.1571021 3.0561727 2.3160188 2.7546631 2.4014926 2.9567307
## 54 1.4879004 1.7366506 1.6724828 1.1868937 1.6154605 1.4431194 1.6148095
## 55 2.3180605 2.7629495 2.6689806 1.9614358 2.4162193 2.0897665 2.5772452
## 56 1.5643491 1.8817469 1.8066210 1.2350656 1.6861355 1.4631913 1.7366506
## 57 2.2667365 2.6658777 2.5796913 1.9130459 2.3742848 2.0752877 2.4963729
## 58 1.1103113 1.0769737 1.0564663 0.9920731 1.2350656 1.2753639 1.0495414
## 59 2.2228391 2.7105971 2.6091640 1.8692770 2.3101685 1.9614358 2.5094431
## 60 1.5743121 1.6861355 1.6467541 1.3339741 1.7055048 1.6154605 1.6154605

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## 61	1.0769737	1.1103113	1.0769737	0.9235557	1.2051838	1.2108392	1.0564663
## 62	1.9035103	2.2380371	2.1618010	1.5643491	2.0218958	1.7725933	2.0897665
## 63	1.4264988	1.8884372	1.7893018	1.0698741	1.5256129	1.2108392	1.6929778
## 64	1.9130459	2.3101685	2.2233121	1.5606911	2.0223829	1.7330535	2.1397482
## 65	1.5218193	1.8066210	1.7366506	1.2051838	1.6467541	1.4481635	1.6724828
## 66	2.3999600	2.8830485	2.7826609	2.0459252	2.4879904	2.1397482	2.6839526
## 67	1.7725933	2.0223829	1.9601296	1.4631913	1.8991572	1.7097750	1.9035103
## 68	1.2753639	1.6929778	1.5999733	0.9235557	1.3853335	1.1103113	1.5109014
## 69	2.0897665	2.4879904	2.4014926	1.7366506	2.1981436	1.9035103	2.3180605
## 70	1.2757247	1.6048111	1.5256129	0.9495786	1.3980316	1.1868937	1.4521494
## 71	2.2629082	2.5507278	2.4841066	1.9334042	2.3851067	2.1539473	2.4216784
## 72	1.8066210	2.2228391	2.1324286	1.4521494	1.9130459	1.6148095	2.0451546
## 73	2.1618010	2.5772452	2.4879904	1.8066210	2.2667365	1.9601296	2.4014926
## 74	1.7036542	2.1399934	2.0459252	1.3476432	1.8066210	1.4987220	1.9547929
## 75	2.0451546	2.5094431	2.4116468	1.6889377	2.1397482	1.8066210	2.3160188
## 76	2.3101685	2.7826609	2.6839526	1.9547929	2.4014926	2.0598775	2.5871161
## 77	2.4923694	2.9849461	2.8830485	2.1399934	2.5772452	2.2233121	2.7826609
## 78	2.6746852	3.1154617	3.0228024	2.3180605	2.7726338	2.4439016	2.9321894
## 79	1.9601296	2.3180605	2.2380371	1.6148095	2.0752877	1.8092377	2.1618010
## 80	1.2108392	1.5999733	1.5109014	0.8665268	1.3261702	1.0769737	1.4264988
## 81	1.2350656	1.5256129	1.4521494	0.9262549	1.3610312	1.1807341	1.3853335
## 82	1.1103113	1.4264988	1.3476432	0.7963658	1.2350656	1.0495414	1.2753639
## 83	1.4987220	1.8670267	1.7831235	1.1553690	1.6148095	1.3610312	1.7036542
## 84	2.0752877	2.4162193	2.3395558	1.7330535	2.1922484	1.9334042	2.2667365
## 85	1.7225219	1.9035103	1.8530414	1.4431194	1.8525098	1.7097750	1.8092377
## 86	2.0752877	2.4162193	2.3395558	1.7330535	2.1922484	1.9334042	2.2667365
## 87	2.4879904	2.9567307	2.8589315	2.1324286	2.5796913	2.2380371	2.7629495
## 88	1.9614358	2.4116468	2.3160188	1.6048111	2.0598775	1.7366506	2.2228391
## 89	1.5218193	1.8066210	1.7366506	1.2051838	1.6467541	1.4481635	1.6724828
## 90	1.4879004	1.7366506	1.6724828	1.1868937	1.6154605	1.4431194	1.6148095
## 91	1.3610312	1.6292678	1.5606911	1.0564663	1.4879004	1.3119268	1.4987220
## 92	1.9130459	2.3101685	2.2233121	1.5606911	2.0223829	1.7330535	2.1397482
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## 94	1.0769737	1.1103113	1.0769737	0.9235557	1.2051838	1.2108392	1.0564663
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## 96	1.4442113	1.7831235	1.7036542	1.1103113	1.5643491	1.3339741	1.6292678
## 97	1.5643491	1.8817469	1.8066210	1.2350656	1.6861355	1.4631913	1.7366506
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## 99	1.1868937	1.2757247	1.2350656	0.9872276	1.3174732	1.2757247	1.2051838
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## 62 0.5005516 1.3742873 0.8851277 0.8554627 1.2694777
## 63 0.8665268 1.3283963 0.8245724 1.0994298 1.2076330 0.6669871
## 64 0.3566247 1.5412488 0.6179044 1.0868697 1.4282931 0.2748575 0.5384868
## 65 0.9324745 0.9324745 1.2076330 0.5005516 0.8245724 0.4473254 0.6230923
## 66 0.5497149 2.2361859 0.1783123 1.8114495 2.1189845 0.9749734 0.9949820
## 67 0.8554627 1.0699967 1.2358089 0.5005516 0.9773965 0.3622899 0.8146339
## 68 0.9920731 1.0868697 1.0431995 0.8946509 0.9661064 0.6669871 0.2415266
## 69 0.1783123 1.7014541 0.5497149 1.2147383 1.5907079 0.3622899 0.6990158
## 70 1.0699967 0.8554627 1.2358089 0.6230923 0.7363609 0.6376820 0.5005516
## 71 0.5497149 1.5999733 1.0699967 0.9949820 1.5109014 0.3935780 1.0564663
## 72 0.4617778 1.5016548 0.6038165 1.0947590 1.3854748 0.3566247 0.4116885
## 73 0.1311927 1.8134795 0.4473254 1.3348589 1.7014541 0.4830532 0.7493610
## 74 0.5776845 1.4727219 0.6179044 1.1180930 1.3540616 0.4617778 0.2888423
## 75 0.4116885 1.8537133 0.2415266 1.4550860 1.7358927 0.6583619 0.6230923
## 76 0.4473254 2.1189845 0.1311927 1.6906862 2.0022065 0.8554627 0.8946509
## 77 0.6583619 2.3537475 0.2748575 1.9322128 2.2361859 1.0947590 1.0994298
## 78 0.5005516 2.3597685 0.5384868 1.8537133 2.2490165 1.0011032 1.2481864
## 79 0.3853122 1.4815278 0.7706244 0.9749734 1.3742873 0.1207633 0.6559634
## 80 1.0698741 0.9661064 1.1559366 0.7999867 0.8453431 0.6990158 0.3622899
## 81 1.1677541 0.7363609 1.3540616 0.5349370 0.6179044 0.7132494 0.6179044
## 82 1.2461847 0.7245798 1.3854748 0.6376820 0.6038165 0.8146339 0.6038165
## 83 0.7999867 1.1180930 0.9749734 0.7706244 1.0011032 0.4116885 0.3566247
## 84 0.3622899 1.5441022 0.8245724 1.0011032 1.4415243 0.1783123 0.7871561
## 85 1.0947590 0.8915617 1.4727219 0.2748575 0.8146339 0.6038165 0.9773965
## 86 0.3622899 1.5441022 0.8245724 1.0011032 1.4415243 0.1783123 0.7871561
## 87 0.5005516 2.2705574 0.2888423 1.8161941 2.1552260 0.9661064 1.0699967
## 88 0.3935780 1.7358927 0.3622899 1.3348589 1.6185060 0.5497149 0.5349370
## 89 0.9324745 0.9324745 1.2076330 0.5005516 0.8245724 0.4473254 0.6230923
## 90 1.0431995 0.8245724 1.3283963 0.3853122 0.7207621 0.5497149 0.7207621
## 91 1.0994298 0.7706244 1.3348589 0.4473254 0.6583619 0.6230923 0.6583619
## 92 0.3566247 1.5412488 0.6179044 1.0868697 1.4282931 0.2748575 0.5384868
## 93 0.7999867 1.1180930 0.9749734 0.7706244 1.0011032 0.4116885 0.3566247
## 94 1.7562097 0.1207633 1.9718900 0.5776845 0.0000000 1.2694777 1.2076330
## 95 0.9324745 0.9324745 1.2076330 0.5005516 0.8245724 0.4473254 0.6230923
## 96 0.8946509 1.0011032 1.0947590 0.6583619 0.8851277 0.4617778 0.4473254
## 97 0.8245724 1.0431995 1.0868697 0.6179044 0.9324745 0.3566247 0.5349370
## 98 0.4116885 1.6185060 0.4830532 1.2147383 1.5016548 0.4473254 0.4617778
## 99 1.5907079 0.2748575 1.8303539 0.4116885 0.1783123 1.0994298 1.0947590
## 100 0.8245724 1.0431995 1.0868697 0.6179044 0.9324745 0.3566247 0.5349370
## 101 1.1807341 2.5944193 1.6154605 1.9614358 2.5173894 1.3980316 2.0009612
## 102 0.7207621 1.6048111 1.2461847 0.9773965 1.5256129 0.5384868 1.2051838
## 103 1.1677541 3.0234320 1.2108392 2.4714585 2.9178825 1.6491447 1.9614358
## 104 0.2623854 1.9899641 0.7493610 1.4282931 1.8884372 0.6230923 1.1103113
## 105 0.8233770 2.4923694 1.1868937 1.8884372 2.3999600 1.1697779 1.6861355
## 106 1.7014541 3.5656929 1.5999733 3.0403320 3.4556079 2.1987100 2.4116468
## 107 1.6957687 0.9183487 2.1189845 0.5349370 0.9262549 1.2358089 1.6149307
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## 109	0.5497149	2.4138518	0.6669871	1.8859305	2.3056991	1.0431995	1.3476432
## 110	1.6048111	3.4040283	1.7330535	2.8135571	3.3062273	2.0459252	2.4439016
## 111	0.5776845	2.3355081	0.9262549	1.7562097	2.2366272	0.9773965	1.4442113
## 112	0.4116885	2.1622864	0.8233770	1.5907079	2.0621719	0.7999867	1.2757247
## 113	0.8915617	2.7105971	1.0769737	2.1393482	2.6091640	1.3419763	1.7366506
## 114	0.8946509	1.6292678	1.4229020	0.9920731	1.5606911	0.6990158	1.3610312
## 115	1.2108392	2.1341845	1.7366506	1.4987220	2.0752877	1.1868937	1.8525098
## 116	0.9262549	2.4879904	1.3339741	1.8692770	2.4014926	1.2108392	1.7725933
## 117	0.3566247	2.1988596	0.6669871	1.6553073	2.0935345	0.8245724	1.2108392
## 118	1.8649490	3.7298979	1.7772928	3.1963098	3.6207776	2.3597685	2.5871161
## 119	1.9240022	3.7871396	1.8670267	3.2417576	3.6797172	2.4138518	2.6689806
## 120	0.3853122	1.4815278	0.7706244	0.9749734	1.3742873	0.1207633	0.6559634
## 121	1.1697779	2.9567307	1.3610312	2.3682998	2.8589315	1.5999733	2.0223829
## 122	0.9949820	1.5606911	1.5171493	0.9235557	1.4987220	0.7493610	1.3980316
## 123	1.7702554	3.6269590	1.6149307	3.1200119	3.5146442	2.2705574	2.4363626
## 124	0.2623854	1.9899641	0.7493610	1.4282931	1.8884372	0.6230923	1.1103113
## 125	0.8146339	2.6091640	1.0564663	2.0309391	2.5094431	1.2461847	1.6724828
## 126	1.1180930	2.9692346	0.9773965	2.4716178	2.8565861	1.6185060	1.7893018
## 127	0.2888423	1.8884372	0.8146339	1.3167239	1.7893018	0.5349370	1.0769737
## 128	0.3566247	1.7893018	0.8915617	1.2069259	1.6929778	0.4617778	1.0564663
## 129	0.6669871	2.3160188	1.0769737	1.7156422	2.2228391	0.9920731	1.5218193
## 130	1.0868697	2.8869416	0.8245724	2.4294765	2.7709496	1.5753950	1.6491447
## 131	1.3854748	3.2417576	1.2461847	2.7365736	3.1295986	1.8859305	2.0621719
## 132	2.0022065	3.8531220	1.8187970	3.3542789	3.7398004	2.5027581	2.6430843
## 133	0.7963658	2.3999600	1.2051838	1.7893018	2.3101685	1.0990718	1.6467541
## 134	0.1311927	1.8134795	0.4473254	1.3348589	1.7014541	0.4830532	0.7493610
## 135	0.3566247	1.5412488	0.6179044	1.0868697	1.4282931	0.2748575	0.5384868
## 136	1.9240022	3.7871396	1.8670267	3.2417576	3.6797172	2.4138518	2.6689806
## 137	1.0495414	2.4963729	1.4879004	1.8670267	2.4162193	1.2757247	1.8720875
## 138	0.2888423	2.0935345	0.6990158	1.5412488	1.9899641	0.7207621	1.1553690
## 139	0.4473254	1.6929778	0.9773965	1.0994298	1.5999733	0.4116885	1.0495414
## 140	0.9773965	2.8135571	1.1103113	2.2490165	2.7105971	1.4415243	1.8066210
## 141	1.1553690	2.8458041	1.4481635	2.2366272	2.7546631	1.5256129	2.0218958
## 142	1.1697779	2.9567307	1.3610312	2.3682998	2.8589315	1.5999733	2.0223829
## 143	0.7207621	1.6048111	1.2461847	0.9773965	1.5256129	0.5384868	1.2051838
## 144	1.0990718	2.8589315	1.3339741	2.2644159	2.7629495	1.5109014	1.9601296
## 145	1.2757247	2.9321894	1.5789371	2.3160188	2.8438183	1.6292678	2.1417742
## 146	1.0376439	2.7629495	1.3174732	2.1622864	2.6689806	1.4264988	1.9035103
## 147	0.3935780	2.0621719	0.8665268	1.4815278	1.9643806	0.7132494	1.2350656
## 148	0.5776845	2.3355081	0.9262549	1.7562097	2.2366272	0.9773965	1.4442113
## 149	0.9262549	2.3180605	1.3980316	1.6889377	2.2380371	1.1103113	1.7225219
## 150	0.5497149	1.5999733	1.0699967	0.9949820	1.5109014	0.3935780	1.0564663
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## 67 0.6179044 0.2623854 1.3348589
## 68 0.6376820 0.4617778 1.2069259 0.6990158
## 69 0.1783123 0.7706244 0.6179044 0.7245798 0.8146339
## 70 0.7207621 0.2623854 1.3854748 0.5247707 0.2748575 0.8946509
## 71 0.5776845 0.7493610 1.0994298 0.5349370 1.0564663 0.5349370 0.9872276
## 72 0.1311927 0.6038165 0.7363609 0.6583619 0.5349370 0.2888423 0.6583619
## 73 0.2748575 0.8851277 0.5005516 0.8453431 0.8915617 0.1207633 0.9949820
## 74 0.2623854 0.6179044 0.7706244 0.7207621 0.4473254 0.4116885 0.6179044
## 75 0.3853122 0.9661064 0.3853122 1.0011032 0.8245724 0.3566247 1.0011032
## 76 0.6038165 1.2147383 0.1207633 1.2147383 1.0994298 0.5005516 1.2701501
## 77 0.8453431 1.4550860 0.1207633 1.4550860 1.3167239 0.7363609 1.5016548
## 78 0.8245724 1.4282931 0.3935780 1.3540616 1.4229020 0.6583619 1.5441022
## 79 0.1783123 0.5497149 0.8554627 0.4830532 0.6990158 0.2415266 0.7132494
## 80 0.7132494 0.4116885 1.3167239 0.6669871 0.1207633 0.8915617 0.1783123
## 81 0.8245724 0.2888423 1.5016548 0.5384868 0.3853122 0.9949820 0.1207633
## 82 0.8946509 0.4116885 1.5412488 0.6669871 0.3622899 1.0699967 0.1783123
## 83 0.4473254 0.2748575 1.1180930 0.4617778 0.2623854 0.6230923 0.2748575
## 84 0.2888423 0.6230923 0.8851277 0.5005516 0.8233770 0.2748575 0.8146339
## 85 0.8554627 0.3566247 1.5753950 0.2415266 0.8146339 0.9661064 0.5776845
## 86 0.2888423 0.6230923 0.8851277 0.5005516 0.8233770 0.2748575 0.8146339
## 87 0.7363609 1.3540616 0.1311927 1.3283963 1.2694777 0.6038165 1.4282931
## 88 0.2748575 0.8453431 0.5005516 0.8851277 0.7207621 0.2888423 0.8851277
## 89 0.6179044 0.0000000 1.3348589 0.2623854 0.4617778 0.7706244 0.2623854
## 90 0.7363609 0.1207633 1.4550860 0.2888423 0.5349370 0.8851277 0.2888423
## 91 0.7706244 0.1783123 1.4727219 0.4116885 0.4473254 0.9324745 0.1783123
## 92 0.0000000 0.6179044 0.7245798 0.6179044 0.6376820 0.1783123 0.7207621
## 93 0.4473254 0.2748575 1.1180930 0.4617778 0.2623854 0.6230923 0.2748575
## 94 1.4282931 0.8245724 2.1189845 0.9773965 0.9661064 1.5907079 0.7363609
## 95 0.6179044 0.0000000 1.3348589 0.2623854 0.4617778 0.7706244 0.2623854
## 96 0.5497149 0.1783123 1.2358089 0.4116885 0.2888423 0.7207621 0.1783123
## 97 0.5005516 0.1207633 1.2147383 0.2888423 0.4116885 0.6583619 0.2888423
## 98 0.1783123 0.7245798 0.6179044 0.7706244 0.6230923 0.2623854 0.7706244
## 99 1.2701501 0.6583619 1.9718900 0.7999867 0.8554627 1.4282931 0.6038165
## 100 0.5005516 0.1207633 1.2147383 0.2888423 0.4116885 0.6583619 0.2888423
## 101 1.4631913 1.7869146 1.5218193 1.5606911 2.0584426 1.3174732 2.0218958
## 102 0.7493610 0.8233770 1.2694777 0.5776845 1.1807341 0.7132494 1.0769737
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## 104 0.5776845 1.0699967 0.7132494 0.9324745 1.2108392 0.4116885 1.2481864
## 105 1.1553690 1.6048111 1.0769737 1.4229020 1.7869146 0.9872276 1.8066210
## 106 2.0309391 2.6334478 1.4229020 2.5403001 2.6091640 1.8649490 2.7485745
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## 108 1.5412488 2.1552260 0.8946509 2.0903623 2.0935345 1.3854748 2.2490165
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## 110 1.9614358 2.4923694 1.5643491 2.3355081 2.5944193 1.7831235 2.6658777
## 111 0.9235557 1.4229020 0.8233770 1.2694777 1.5606911 0.7493610 1.6048111
## 112 0.7493610 1.2461847 0.7493610 1.0994298 1.3853335 0.5776845 1.4264988
## 113 1.2481864 1.7893018 0.9262549 1.6491447 1.8817469 1.0698741 1.9547929
## 114 0.9235557 0.9262549 1.4415243 0.6669871 1.3174732 0.8915617 1.1868937
## 115 1.3610312 1.4631913 1.7036542 1.2051838 1.8366975 1.2757247 1.7225219
## 116 1.2350656 1.6292678 1.2350656 1.4264988 1.8530414 1.0769737 1.8471113
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## 118 2.1988596 2.7974234 1.5999733 2.6971854 2.7826609 2.0309391 2.9178825
## 119 2.2644159 2.8552752 1.6889377 2.7446278 2.8589315 2.0935345 2.9849461
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## 121 1.5256129 2.0459252 1.2051838 1.8884372 2.1618010 1.3476432 2.2233121
## 122 0.9920731 0.9183487 1.5441022 0.6559634 1.3339741 0.9773965 1.1807341
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## 132 2.3118732 2.9254370 1.6491447 2.8539630 2.8552752 2.1552260 3.0181037
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## 76 0.9949820 0.6179044 0.3853122 0.6583619 0.2748575
## 77 1.2069259 0.8554627 0.6179044 0.8851277 0.5005516 0.2415266
## 78 0.9749734 0.8946509 0.5497149 0.9773965 0.6376820 0.4116885 0.4116885

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## 79 0.4116885 0.2888423 0.3622899 0.4116885 0.5497149 0.7363609 0.9749734
## 80 1.0769737 0.6230923 0.9773965 0.5497149 0.9324745 1.2069259 1.4282931
## 81 1.0376439 0.7706244 1.0994298 0.7363609 1.1180930 1.3854748 1.6185060
## 82 1.1553690 0.8245724 1.1677541 0.7706244 1.1559366 1.4282931 1.6553073
## 83 0.7963658 0.3853122 0.7207621 0.3622899 0.7363609 1.0011032 1.2358089
## 84 0.2888423 0.4116885 0.3853122 0.5384868 0.6230923 0.7706244 1.0011032
## 85 0.7207621 0.8851277 1.0868697 0.9324745 1.2358089 1.4550860 1.6957687
## 86 0.2888423 0.4116885 0.3853122 0.5384868 0.6230923 0.7706244 1.0011032
## 87 1.0431995 0.7706244 0.4830532 0.8245724 0.4473254 0.1783123 0.1783123
## 88 0.8146339 0.2415266 0.2623854 0.2748575 0.1207633 0.3853122 0.6179044
## 89 0.7493610 0.6038165 0.8851277 0.6179044 0.9661064 1.2147383 1.4550860
## 90 0.8146339 0.7245798 1.0011032 0.7363609 1.0868697 1.3348589 1.5753950
## 91 0.9235557 0.7363609 1.0431995 0.7245798 1.0947590 1.3540616 1.5916985
## 92 0.5776845 0.1311927 0.2748575 0.2623854 0.3853122 0.6038165 0.8453431
## 93 0.7963658 0.3853122 0.7207621 0.3622899 0.7363609 1.0011032 1.2358089
## 94 1.5109014 1.3854748 1.7014541 1.3540616 1.7358927 2.0022065 2.2361859
## 95 0.7493610 0.6038165 0.8851277 0.6179044 0.9661064 1.2147383 1.4550860
## 96 0.8233770 0.5005516 0.8245724 0.4830532 0.8554627 1.1180930 1.3540616
## 97 0.6990158 0.4830532 0.7706244 0.5005516 0.8453431 1.0947590 1.3348589
## 98 0.7493610 0.1207633 0.2888423 0.1783123 0.2415266 0.5005516 0.7363609
## 99 1.3329389 1.2358089 1.5412488 1.2147383 1.5916985 1.8537133 2.0903623
## 100 0.6990158 0.4830532 0.7706244 0.5005516 0.8453431 1.0947590 1.3348589
## 101 1.0376439 1.5927315 1.3119268 1.7225219 1.5789371 1.4879004 1.5643491
## 102 0.1783123 0.8665268 0.7999867 0.9872276 1.0698741 1.1677541 1.3742873
## 103 1.5016548 1.5999733 1.2461847 1.6889377 1.3476432 1.0990718 0.9872276
## 104 0.4830532 0.6990158 0.3935780 0.8233770 0.6669871 0.6376820 0.7999867
## 105 0.8946509 1.2757247 0.9495786 1.3980316 1.1868937 1.0564663 1.1103113
## 106 2.0903623 2.0935345 1.7562097 2.1622864 1.7893018 1.5171493 1.3329389
## 107 1.2147383 1.5412488 1.7109255 1.5907079 1.8859305 2.0903623 2.3280134
## 108 1.6906862 1.5907079 1.2701501 1.6491447 1.2694777 0.9949820 0.7999867
## 109 0.9661064 0.9773965 0.6230923 1.0698741 0.7493610 0.5384868 0.5384868
## 110 1.8187970 2.0598775 1.7036542 2.1618010 1.8471113 1.6148095 1.5218193
## 111 0.7706244 1.0376439 0.6990158 1.1553690 0.9262549 0.7963658 0.8665268
## 112 0.6179044 0.8665268 0.5384868 0.9872276 0.7871561 0.6990158 0.8146339
## 113 1.1559366 1.3476432 0.9920731 1.4521494 1.1553690 0.9495786 0.9183487
## 114 0.3566247 1.0376439 0.9773965 1.1553690 1.2481864 1.3419763 1.5441022
## 115 0.7963658 1.4879004 1.3261702 1.6154605 1.6148095 1.6292678 1.7831235
## 116 0.8915617 1.3610312 1.0564663 1.4879004 1.3119268 1.2051838 1.2757247
## 117 0.7245798 0.8146339 0.4617778 0.9235557 0.6669871 0.5384868 0.6376820
## 118 2.2361859 2.2644159 1.9240022 2.3355081 1.9643806 1.6929778 1.5109014
## 119 2.2705574 2.3355081 1.9899641 2.4116468 2.0459252 1.7772928 1.6048111
## 120 0.4116885 0.2888423 0.3622899 0.4116885 0.5497149 0.7363609 0.9749734
## 121 1.3742873 1.6292678 1.2753639 1.7366506 1.4442113 1.2350656 1.1868937
## 122 0.4473254 1.0990718 1.0699967 1.2108392 1.3329389 1.4415243 1.6491447
## 123 2.1895180 2.1393482 1.8134795 2.1988596 1.8187970 1.5441022 1.3419763
## 124 0.4830532 0.6990158 0.3935780 0.8233770 0.6669871 0.6376820 0.7999867
## 125 1.0431995 1.2753639 0.9235557 1.3853335 1.1103113 0.9262549 0.9262549
## 126 1.5699229 1.4815278 1.1559366 1.5441022 1.1677541 0.8946509 0.7132494
## 127 0.3622899 0.6669871 0.4116885 0.7963658 0.6990158 0.7132494 0.8946509
## 128 0.2415266 0.6559634 0.4617778 0.7871561 0.7493610 0.7999867 0.9949820
## 129 0.7207621 1.1103113 0.7963658 1.2350656 1.0495414 0.9495786 1.0376439
## 130 1.5916985 1.3854748 1.0947590 1.4282931 1.0431995 0.7706244 0.5497149
## 131 1.8161941 1.7562097 1.4282931 1.8187970 1.4415243 1.1677541 0.9773965
## 132 2.4294765 2.3597685 2.0405231 2.4138518 2.0309391 1.7562097 1.5441022

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## 133 0.7999867 1.2350656 0.9262549 1.3610312 1.1807341 1.0769737 1.1553690
## 134 0.6230923 0.3566247 0.0000000 0.4617778 0.2888423 0.3853122 0.6179044
## 135 0.5776845 0.1311927 0.2748575 0.2623854 0.3853122 0.6038165 0.8453431
## 136 2.2705574 2.3355081 1.9899641 2.4116468 2.0459252 1.7772928 1.6048111
## 137 0.9235557 1.4631913 1.1807341 1.5927315 1.4481635 1.3610312 1.4442113
## 138 0.6038165 0.7493610 0.4116885 0.8665268 0.6559634 0.5776845 0.7132494
## 139 0.1207633 0.6669871 0.5349370 0.7963658 0.8146339 0.8946509 1.0994298
## 140 1.2701501 1.4264988 1.0698741 1.5256129 1.2108392 0.9872276 0.9262549
## 141 1.2461847 1.6148095 1.2757247 1.7330535 1.4879004 1.3174732 1.3174732
## 142 1.3742873 1.6292678 1.2753639 1.7366506 1.4442113 1.2350656 1.1868937
## 143 0.1783123 0.8665268 0.7999867 0.9872276 1.0698741 1.1677541 1.3742873
## 144 1.2694777 1.5606911 1.2108392 1.6724828 1.3980316 1.2051838 1.1807341
## 145 1.3329389 1.7330535 1.3980316 1.8530414 1.6154605 1.4481635 1.4481635
## 146 1.1677541 1.4987220 1.1553690 1.6148095 1.3610312 1.1868937 1.1868937
## 147 0.5005516 0.8233770 0.5247707 0.9495786 0.7963658 0.7493610 0.8915617
## 148 0.7706244 1.0376439 0.6990158 1.1553690 0.9262549 0.7963658 0.8665268
## 149 0.7493610 1.3174732 1.0564663 1.4481635 1.3339741 1.2757247 1.3853335
## 150 0.0000000 0.6990158 0.6230923 0.8233770 0.8915617 0.9949820 1.2069259
##          78          79          80          81          82          83          84
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## 80 1.5171493 0.7493610
## 81 1.6491447 0.7999867 0.2748575
## 82 1.7156422 0.8915617 0.2415266 0.1311927
## 83 1.2694777 0.4617778 0.2888423 0.3853122 0.4473254
## 84 0.8554627 0.1311927 0.8665268 0.8915617 0.9920731 0.5776845
## 85 1.5916985 0.7245798 0.7493610 0.5384868 0.6669871 0.6230923 0.7363609
## 86 0.8554627 0.1311927 0.8665268 0.8915617 0.9920731 0.5776845 0.0000000
## 87 0.2623854 0.8453431 1.3742873 1.5412488 1.5907079 1.1559366 0.8554627
## 88 0.7132494 0.4473254 0.8245724 1.0011032 1.0431995 0.6179044 0.5349370
## 89 1.4282931 0.5497149 0.4116885 0.2888423 0.4116885 0.2748575 0.6230923
## 90 1.5412488 0.6583619 0.4617778 0.2623854 0.3935780 0.3853122 0.7207621

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## 91 1.5907079 0.7207621 0.3566247 0.1311927 0.2623854 0.3622899 0.7999867
## 92 0.8245724 0.1783123 0.7132494 0.8245724 0.8946509 0.4473254 0.2888423
## 93 1.2694777 0.4617778 0.2888423 0.3853122 0.4473254 0.0000000 0.5776845
## 94 2.2490165 1.3742873 0.8453431 0.6179044 0.6038165 1.0011032 1.4415243
## 95 1.4282931 0.5497149 0.4116885 0.2888423 0.4116885 0.2748575 0.6230923
## 96 1.3742873 0.5349370 0.2623854 0.2748575 0.3566247 0.1207633 0.6376820
## 97 1.3167239 0.4473254 0.3935780 0.3566247 0.4617778 0.1783123 0.5349370
## 98 0.7999867 0.3566247 0.7207621 0.8851277 0.9324745 0.5005516 0.4617778
## 99 2.0863991 1.2069259 0.7363609 0.4830532 0.5005516 0.8554627 1.2694777
## 100 1.3167239 0.4473254 0.3935780 0.3566247 0.4617778 0.1783123 0.5349370
## 101 1.1553690 1.3610312 2.0970473 2.0752877 2.1922484 1.8092377 1.2350656
## 102 1.1180930 0.5776845 1.1868937 1.1103113 1.2350656 0.9183487 0.4617778
## 103 0.7132494 1.5441022 2.2228391 2.3355081 2.4116468 1.9643806 1.4815278
## 104 0.5005516 0.5349370 1.2753639 1.3329389 1.4264988 0.9920731 0.4473254
## 105 0.6990158 1.0990718 1.8471113 1.8817469 1.9841462 1.5606911 0.9920731
## 106 1.2069259 2.0863991 2.7105971 2.8552752 2.9178825 2.4737171 2.0405231
## 107 2.1737394 1.3540616 1.3329389 1.0698741 1.1697779 1.2694777 1.3348589
## 108 0.7363609 1.6185060 2.1988596 2.3597685 2.4138518 1.9750858 1.5916985
## 109 0.1311927 0.9324745 1.5999733 1.7156422 1.7893018 1.3419763 0.8851277
## 110 1.2108392 1.9547929 2.6746852 2.7546631 2.8438183 2.4014926 1.8692770
## 111 0.4617778 0.8915617 1.6292678 1.6889377 1.7831235 1.3476432 0.7999867
## 112 0.4473254 0.7132494 1.4521494 1.5109014 1.6048111 1.1697779 0.6230923
## 113 0.5384868 1.2461847 1.9614358 2.0459252 2.1324286 1.6889377 1.1677541
## 114 1.2701501 0.7493610 1.3119268 1.2051838 1.3339741 1.0564663 0.6376820
## 115 1.4229020 1.2051838 1.8406633 1.7435597 1.8720875 1.5743121 1.0769737
## 116 0.8665268 1.1553690 1.9035103 1.9130459 2.0223829 1.6148095 1.0376439
## 117 0.2748575 0.7207621 1.4264988 1.5171493 1.5999733 1.1550843 0.6583619
## 118 1.3742873 2.2490165 2.8830485 3.0234320 3.0882043 2.6430843 2.1987100
## 119 1.4415243 2.3056991 2.9567307 3.0882043 3.1571021 2.7105971 2.2490165
## 120 0.8851277 0.0000000 0.7493610 0.7999867 0.8915617 0.4617778 0.1311927
## 121 0.8233770 1.5109014 2.2380371 2.3101685 2.4014926 1.9614358 1.4229020
## 122 1.3854748 0.8146339 1.3174732 1.1868937 1.3174732 1.0769737 0.7132494
## 123 1.2701501 2.1552260 2.7485745 2.9073493 2.9630557 2.5231488 2.1189845
## 124 0.5005516 0.5349370 1.2753639 1.3329389 1.4264988 0.9920731 0.4473254
## 125 0.5247707 1.1550843 1.8817469 1.9547929 2.0451546 1.6048111 1.0699967
## 126 0.6179044 1.5016548 2.0935345 2.2490165 2.3056991 1.8649490 1.4727219
## 127 0.6179044 0.4617778 1.2108392 1.2481864 1.3476432 0.9235557 0.3566247
## 128 0.7363609 0.4116885 1.1553690 1.1697779 1.2753639 0.8665268 0.2888423
## 129 0.6376820 0.9235557 1.6724828 1.7036542 1.8066210 1.3853335 0.8146339
## 130 0.6179044 1.4550860 1.9750858 2.1552260 2.1987100 1.7702554 1.4491596
## 131 0.8851277 1.7702554 2.3682998 2.5231488 2.5804798 2.1393482 1.7358927
## 132 1.5016548 2.3864264 2.9630557 3.1295986 3.1814158 2.7446278 2.3537475
## 133 0.7493610 1.0376439 1.7869146 1.8066210 1.9130459 1.4987220 0.9235557
## 134 0.5497149 0.3622899 0.9773965 1.0994298 1.1677541 0.7207621 0.3853122
## 135 0.8245724 0.1783123 0.7132494 0.8245724 0.8946509 0.4473254 0.2888423
## 136 1.4415243 2.3056991 2.9567307 3.0882043 3.1571021 2.7105971 2.2490165
## 137 1.0376439 1.2350656 1.9744552 1.9601296 2.0752877 1.6861355 1.1103113
## 138 0.3853122 0.6230923 1.3476432 1.4229020 1.5109014 1.0698741 0.5497149
## 139 0.8554627 0.3935780 1.1103113 1.0990718 1.2108392 0.8233770 0.2623854
## 140 0.5776845 1.3419763 2.0451546 2.1399934 2.2228391 1.7772928 1.2694777
## 141 0.9183487 1.4521494 2.1981436 2.2380371 2.3395558 1.9130459 1.3476432
## 142 0.8233770 1.5109014 2.2380371 2.3101685 2.4014926 1.9614358 1.4229020
## 143 1.1180930 0.5776845 1.1868937 1.1103113 1.2350656 0.9183487 0.4617778
## 144 0.7963658 1.4264988 2.1618010 2.2233121 2.3180605 1.8817469 1.3329389

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## 145 1.0495414 1.5606911 2.3088892 2.3395558 2.4439016 2.0223829 1.4521494
## 146 0.7871561 1.3476432 2.0897665 2.1397482 2.2380371 1.8066210 1.2481864
## 147 0.5497149 0.6376820 1.3853335 1.4264988 1.5256129 1.0990718 0.5349370
## 148 0.4617778 0.8915617 1.6292678 1.6889377 1.7831235 1.3476432 0.7999867
## 149 0.9920731 1.0769737 1.8092377 1.7869146 1.9035103 1.5218193 0.9495786
## 150 0.9749734 0.4116885 1.0769737 1.0376439 1.1553690 0.7963658 0.2888423
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## 89 0.3566247 0.6230923 1.3540616 0.8453431
## 90 0.2888423 0.7207621 1.4727219 0.9661064 0.1207633
## 91 0.4116885 0.7999867 1.5016548 0.9749734 0.1783123 0.1311927
## 92 0.8554627 0.2888423 0.7363609 0.2748575 0.6179044 0.7363609 0.7706244
## 93 0.6230923 0.5776845 1.1559366 0.6179044 0.2748575 0.3853122 0.3622899
## 94 0.8146339 1.4415243 2.1552260 1.6185060 0.8245724 0.7207621 0.6583619
## 95 0.3566247 0.6230923 1.3540616 0.8453431 0.0000000 0.1207633 0.1783123
## 96 0.5349370 0.6376820 1.2701501 0.7363609 0.1783123 0.2748575 0.2415266
## 97 0.4473254 0.5349370 1.2358089 0.7245798 0.1207633 0.2415266 0.2748575
## 98 1.0011032 0.4617778 0.6583619 0.1207633 0.7245798 0.8453431 0.8554627
## 99 0.6376820 1.2694777 2.0022065 1.4727219 0.6583619 0.5497149 0.5005516
## 100 0.4473254 0.5349370 1.2358089 0.7245798 0.1207633 0.2415266 0.2748575
## 101 1.7036542 1.2350656 1.3980316 1.5743121 1.7869146 1.8471113 1.9601296
## 102 0.7132494 0.4617778 1.2069259 0.9920731 0.8233770 0.8665268 0.9872276

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## 103	2.1987100	1.4815278	0.9235557	1.4264988	2.0935345	2.1988596	2.2644159
## 104	1.1559366	0.4473254	0.6230923	0.6559634	1.0699967	1.1677541	1.2461847
## 105	1.6149307	0.9920731	0.9495786	1.2051838	1.6048111	1.6889377	1.7831235
## 106	2.7709496	2.0405231	1.3419763	1.8884372	2.6334478	2.7446278	2.7974234
## 107	0.6583619	1.3348589	2.1895180	1.7702554	0.9949820	0.8946509	0.9773965
## 108	2.3280134	1.5916985	0.8245724	1.3742873	2.1552260	2.2705574	2.3118732
## 109	1.6185060	0.8851277	0.3935780	0.8146339	1.4815278	1.5907079	1.6491447
## 110	2.5389555	1.8692770	1.4442113	1.9130459	2.4923694	2.5871161	2.6689806
## 111	1.4815278	0.7999867	0.6990158	0.9495786	1.4229020	1.5171493	1.5999733
## 112	1.3167239	0.6230923	0.6376820	0.7963658	1.2461847	1.3419763	1.4229020
## 113	1.8649490	1.1677541	0.7963658	1.2108392	1.7893018	1.8884372	1.9643806
## 114	0.7493610	0.6376820	1.3742873	1.1697779	0.9262549	0.9495786	1.0769737
## 115	1.2757247	1.0769737	1.6048111	1.5643491	1.4631913	1.4879004	1.6154605
## 116	1.5999733	1.0376439	1.1103113	1.3174732	1.6292678	1.7036542	1.8066210
## 117	1.3854748	0.6583619	0.4617778	0.6990158	1.2694777	1.3742873	1.4415243
## 118	2.9254370	2.1987100	1.5171493	2.0621719	2.7974234	2.9073493	2.9630557
## 119	2.9692346	2.2490165	1.5999733	2.1399934	2.8552752	2.9630557	3.0234320
## 120	0.7245798	0.1311927	0.8453431	0.4473254	0.5497149	0.6583619	0.7207621
## 121	2.0935345	1.4229020	1.0769737	1.4987220	2.0459252	2.1399934	2.2228391
## 122	0.6990158	0.7132494	1.4815278	1.2481864	0.9183487	0.9262549	1.0564663
## 123	2.8539630	2.1189845	1.3742873	1.9240022	2.6971854	2.8110339	2.8565861
## 124	1.1559366	0.4473254	0.6230923	0.6559634	1.0699967	1.1677541	1.2461847
## 125	1.7562097	1.0699967	0.7871561	1.1553690	1.6929778	1.7893018	1.8692770
## 126	2.2090828	1.4727219	0.7207621	1.2694777	2.0405231	2.1552260	2.1987100
## 127	1.0431995	0.3566247	0.7207621	0.6669871	0.9773965	1.0699967	1.1550843
## 128	0.9324745	0.2888423	0.8245724	0.6990158	0.8915617	0.9773965	1.0698741
## 129	1.4415243	0.8146339	0.8665268	1.0564663	1.4264988	1.5109014	1.6048111
## 130	2.1776948	1.4491596	0.6179044	1.1559366	1.9718900	2.0903623	2.1189845
## 131	2.4716178	1.7358927	0.9949820	1.5441022	2.3118732	2.4257695	2.4714585
## 132	3.0895222	2.3537475	1.5907079	2.1393482	2.9254370	3.0403320	3.0824976
## 133	1.5171493	0.9235557	0.9872276	1.1868937	1.5256129	1.6048111	1.7036542
## 134	1.0868697	0.3853122	0.4830532	0.2623854	0.8851277	1.0011032	1.0431995
## 135	0.8554627	0.2888423	0.7363609	0.2748575	0.6179044	0.7363609	0.7706244
## 136	2.9692346	2.2490165	1.5999733	2.1399934	2.8552752	2.9630557	3.0234320
## 137	1.6048111	1.1103113	1.2757247	1.4431194	1.6724828	1.7366506	1.8471113
## 138	1.2701501	0.5497149	0.5349370	0.6669871	1.1677541	1.2694777	1.3419763
## 139	0.8245724	0.2623854	0.9324745	0.7493610	0.8146339	0.8915617	0.9920731
## 140	1.9750858	1.2694777	0.8233770	1.2753639	1.8884372	1.9899641	2.0621719
## 141	1.9643806	1.3476432	1.1807341	1.5218193	1.9614358	2.0451546	2.1397482
## 142	2.0935345	1.4229020	1.0769737	1.4987220	2.0459252	2.1399934	2.2228391
## 143	0.7132494	0.4617778	1.2069259	0.9920731	0.8233770	0.8665268	0.9872276
## 144	1.9899641	1.3329389	1.0564663	1.4442113	1.9547929	2.0459252	2.1324286
## 145	2.0459252	1.4521494	1.3119268	1.6467541	2.0598775	2.1397482	2.2380371
## 146	1.8884372	1.2481864	1.0495414	1.3980316	1.8670267	1.9547929	2.0451546
## 147	1.2069259	0.5349370	0.7132494	0.7871561	1.1550843	1.2461847	1.3329389
## 148	1.4815278	0.7999867	0.6990158	0.9495786	1.4229020	1.5171493	1.5999733
## 149	1.4264988	0.9495786	1.2108392	1.3174732	1.4987220	1.5606911	1.6724828
## 150	0.7207621	0.2888423	1.0431995	0.8146339	0.7493610	0.8146339	0.9235557
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## 97 0.5005516 0.1783123 0.9324745 0.1207633 0.1311927
## 98 0.1783123 0.5005516 1.5016548 0.7245798 0.6179044 0.6038165
## 99 1.2701501 0.8554627 0.1783123 0.6583619 0.7363609 0.7706244 1.3540616
## 100 0.5005516 0.1783123 0.9324745 0.1207633 0.1311927 0.0000000 0.6038165
## 101 1.4631913 1.8092377 2.5173894 1.7869146 1.8530414 1.7330535 1.5789371
## 102 0.7493610 0.9183487 1.5256129 0.8233770 0.9262549 0.7963658 0.9235557
## 103 1.5171493 1.9643806 2.9178825 2.0935345 2.0621719 1.9899641 1.5109014
## 104 0.5776845 0.9920731 1.8884372 1.0699967 1.0698741 0.9773965 0.6669871
## 105 1.1553690 1.5606911 2.3999600 1.6048111 1.6292678 1.5256129 1.2350656
## 106 2.0309391 2.4737171 3.4556079 2.6334478 2.5804798 2.5231488 1.9899641
## 107 1.5016548 1.2694777 0.9262549 0.9949820 1.1677541 1.0994298 1.6553073
## 108 1.5412488 1.9750858 2.9692346 2.1552260 2.0863991 2.0405231 1.4815278
## 109 0.8946509 1.3419763 2.3056991 1.4815278 1.4415243 1.3742873 0.8915617
## 110 1.9614358 2.4014926 3.3062273 2.4923694 2.4879904 2.3999600 1.9841462
## 111 0.9235557 1.3476432 2.2366272 1.4229020 1.4264988 1.3329389 0.9872276
## 112 0.7493610 1.1697779 2.0621719 1.2461847 1.2481864 1.1550843 0.8233770
## 113 1.2481864 1.6889377 2.6091640 1.7893018 1.7772928 1.6929778 1.2753639
## 114 0.9235557 1.0564663 1.5606911 0.9262549 1.0495414 0.9183487 1.0990718

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## 115 1.3610312 1.5743121 2.0752877 1.4631913 1.5789371 1.4481635 1.5218193
## 116 1.2350656 1.6148095 2.4014926 1.6292678 1.6724828 1.5606911 1.3339741
## 117 0.7132494 1.1550843 2.0935345 1.2694777 1.2461847 1.1677541 0.7493610
## 118 2.1988596 2.6430843 3.6207776 2.7974234 2.7485745 2.6884276 2.1622864
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## 128 0.5247707 0.8665268 1.6929778 0.8915617 0.9235557 0.8146339 0.6669871
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## 141 1.4987220 1.9130459 2.7546631 1.9614358 1.9841462 1.8817469 1.5643491
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## 145 1.6148095 2.0223829 2.8438183 2.0598775 2.0897665 1.9841462 1.6861355
## 146 1.3853335 1.8066210 2.6689806 1.8670267 1.8817469 1.7831235 1.4442113
## 147 0.6990158 1.0990718 1.9643806 1.1550843 1.1697779 1.0698741 0.7963658
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## 105 2.2228391 1.5256129 0.4617778 0.9324745 0.7363609 0.5776845
## 106 3.2918097 2.5231488 1.6553073 2.1895180 0.6038165 1.6185060 1.3348589
## 107 0.8233770 1.0994298 1.9899641 1.1180930 2.7081232 1.6957687 2.0405231
## 108 2.8110339 2.0405231 1.5171493 1.8161941 0.4617778 1.2076330 1.0994298
## 109 2.1393482 1.3742873 1.0376439 1.0947590 0.6230923 0.4830532 0.5776845
## 110 3.1312781 2.3999600 1.0868697 1.8649490 0.5384868 1.4229020 0.9324745
## 111 2.0621719 1.3329389 0.6990158 0.8554627 0.7363609 0.3566247 0.2623854
## 112 1.8884372 1.1550843 0.7963658 0.7245798 0.8851277 0.1783123 0.4116885
## 113 2.4363626 1.6929778 0.7999867 1.2358089 0.3622899 0.7207621 0.3853122
## 114 1.3853335 0.9183487 0.9773965 0.1783123 1.6957687 0.7706244 1.0011032
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## 117 1.9240022 1.1677541 0.9495786 0.8554627 0.8245724 0.2415266 0.5247707
## 118 3.4556079 2.6884276 1.7358927 2.3280134 0.7363609 1.7702554 1.4491596
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## 120 1.2069259 0.4473254 1.3610312 0.5776845 1.5441022 0.5349370 1.0990718
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## 124 1.7156422 0.9773965 0.9183487 0.6179044 1.0431995 0.0000000 0.5776845
## 125 2.3355081 1.5999733 0.7132494 1.1180930 0.4830532 0.6230923 0.2748575
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## 127 1.6149307 0.8915617 0.9262549 0.5005516 1.1559366 0.1207633 0.6376820
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## 129 2.0459252 1.3476432 0.5384868 0.7706244 0.8453431 0.4116885 0.1783123
## 130 2.6194909 1.8537133 1.6048111 1.7358927 0.6669871 1.1180930 1.1550843
## 131 2.9692346 2.1987100 1.5441022 1.9322128 0.4473254 1.3348589 1.1559366
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## 134 1.5412488 0.7706244 1.3119268 0.7999867 1.2461847 0.3935780 0.9495786
## 135 1.2701501 0.5005516 1.4631913 0.7493610 1.5171493 0.5776845 1.1553690
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## 138 1.8187970 1.0699967 0.9262549 0.7363609 0.9324745 0.1207633 0.5384868
## 139 1.4229020 0.7493610 0.9872276 0.2748575 1.3854748 0.3622899 0.7999867
## 140 2.5389555 1.7893018 0.8946509 1.3540616 0.2415266 0.8245724 0.5005516
## 141 2.5772452 1.8817469 0.5005516 1.2694777 0.6230923 0.9235557 0.3566247
## 142 2.6839526 1.9547929 0.7706244 1.4282931 0.3566247 0.9773965 0.5005516
## 143 1.3476432 0.7963658 0.9920731 0.0000000 1.5916985 0.6179044 0.9324745
## 144 2.5871161 1.8670267 0.6583619 1.3167239 0.4473254 0.8915617 0.3853122
## 145 2.6658777 1.9841462 0.4830532 1.3419763 0.7132494 1.0376439 0.4617778
## 146 2.4923694 1.7831235 0.5497149 1.2069259 0.5497149 0.8146339 0.2748575
## 147 1.7893018 1.0698741 0.7871561 0.6038165 1.0011032 0.1311927 0.4617778
## 148 2.0621719 1.3329389 0.6990158 0.8554627 0.7363609 0.3566247 0.2623854
## 149 2.0598775 1.4442113 0.2888423 0.7132494 1.1180930 0.6669871 0.3853122
## 150 1.3329389 0.6990158 1.0376439 0.1783123 1.5016548 0.4830532 0.8946509
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## 111 1.3348589 1.9718900 1.0011032 0.3566247 1.0699967
## 112 1.4727219 1.8303539 1.0947590 0.3853122 1.2461847 0.1783123
## 113 0.9661064 2.3537475 0.7207621 0.4116885 0.7132494 0.3853122 0.5497149
## 114 2.2982503 1.0431995 1.9499468 1.2358089 1.9265610 0.9661064 0.8554627
## 115 2.2090828 1.4229020 1.9750858 1.3419763 1.6957687 0.9949820 0.9773965
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## 117 1.3854748 1.9366615 0.9661064 0.2415266 1.2481864 0.2623854 0.1783123
## 118 0.1783123 3.4444111 0.7132494 1.3167239 0.7207621 1.4727219 1.6185060
## 119 0.2888423 3.4717855 0.8146339 1.3742873 0.6583619 1.5016548 1.6553073
## 120 2.0863991 1.3540616 1.6185060 0.9324745 1.9547929 0.8915617 0.7132494
## 121 0.8851277 2.5403001 0.8146339 0.6990158 0.4473254 0.6230923 0.7999867
## 122 2.4188265 0.9324745 2.0696756 1.3540616 2.0405231 1.0868697 0.9749734
## 123 0.1783123 3.4042008 0.5497149 1.2358089 0.8915617 1.4491596 1.5753950
## 124 1.6185060 1.6957687 1.2076330 0.4830532 1.4229020 0.3566247 0.1783123
## 125 1.0868697 2.2361859 0.8245724 0.3935780 0.7999867 0.2748575 0.4473254
## 126 0.6230923 2.7806525 0.1207633 0.6038165 0.9183487 0.8851277 0.9749734
## 127 1.7358927 1.5753950 1.3283963 0.6038165 1.5171493 0.4473254 0.2748575
## 128 1.8537133 1.4550860 1.4491596 0.7245798 1.6149307 0.5497149 0.3853122
## 129 1.4491596 1.8859305 1.1559366 0.5349370 1.0994298 0.1783123 0.2623854
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## 131 0.3566247 3.0304629 0.1783123 0.8554627 0.8233770 1.0947590 1.2076330
## 132 0.3853122 3.6442148 0.7706244 1.4727219 1.0699967 1.6906862 1.8161941
## 133 1.4550860 1.9265610 1.2069259 0.6376820 1.0431995 0.2888423 0.3935780
## 134 1.7562097 1.7109255 1.2701501 0.6230923 1.7036542 0.6990158 0.5384868
## 135 2.0309391 1.5016548 1.5412488 0.8946509 1.9614358 0.9235557 0.7493610
## 136 0.2888423 3.4717855 0.8146339 1.3742873 0.6583619 1.5016548 1.6553073
## 137 1.6185060 1.9240022 1.4415243 0.9235557 1.0947590 0.5776845 0.6669871
## 138 1.5016548 1.8161941 1.0868697 0.3622899 1.3329389 0.2888423 0.1311927

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## 139	1.9718900	1.3348589	1.5699229	0.8453431	1.7156422	0.6583619	0.5005516
## 140	0.8453431	2.4716178	0.6230923	0.4617778	0.6376820	0.5005516	0.6583619
## 141	1.1559366	2.3597685	1.0698741	0.7871561	0.6179044	0.5776845	0.7493610
## 142	0.8851277	2.5403001	0.8146339	0.6990158	0.4473254	0.6230923	0.7999867
## 143	2.1895180	1.1180930	1.8161941	1.0947590	1.8649490	0.8554627	0.7245798
## 144	1.0011032	2.4257695	0.8915617	0.6669871	0.5497149	0.5349370	0.7132494
## 145	1.2069259	2.4138518	1.1697779	0.9183487	0.6038165	0.6990158	0.8665268
## 146	1.1180930	2.3118732	0.9773965	0.6559634	0.6583619	0.4617778	0.6376820
## 147	1.5916985	1.7109255	1.2147383	0.5005516	1.3419763	0.2748575	0.1207633
## 148	1.3348589	1.9718900	1.0011032	0.3566247	1.0699967	0.0000000	0.1783123
## 149	1.7109255	1.7562097	1.4815278	0.8915617	1.2358089	0.5349370	0.5776845
## 150	2.0903623	1.2147383	1.6906862	0.9661064	1.8187970	0.7706244	0.6179044
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## 146 1.1553690 1.3853335 1.2076330 0.5005516 0.7493610 1.0699967 0.3566247
## 147 0.5247707 0.6990158 1.7702554 0.6559634 0.1783123 0.3853122 0.7706244
## 148 0.6990158 0.9235557 1.5016548 0.5776845 0.2888423 0.6583619 0.5005516
## 149 1.0564663 1.1868937 1.8114495 0.1783123 0.6990158 0.6990158 0.8851277
## 150 0.6230923 0.5776845 2.2705574 0.9235557 0.6038165 0.1207633 1.2701501
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## 145 0.1311927 0.3566247 1.3419763 0.2888423
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## 147 0.8146339 0.8946509 0.6038165 0.7999867 0.9235557 0.7132494
## 148 0.5776845 0.6230923 0.8554627 0.5349370 0.6990158 0.4617778 0.2748575
## 149 0.6179044 0.8453431 0.7132494 0.7245798 0.6583619 0.6038165 0.5384868
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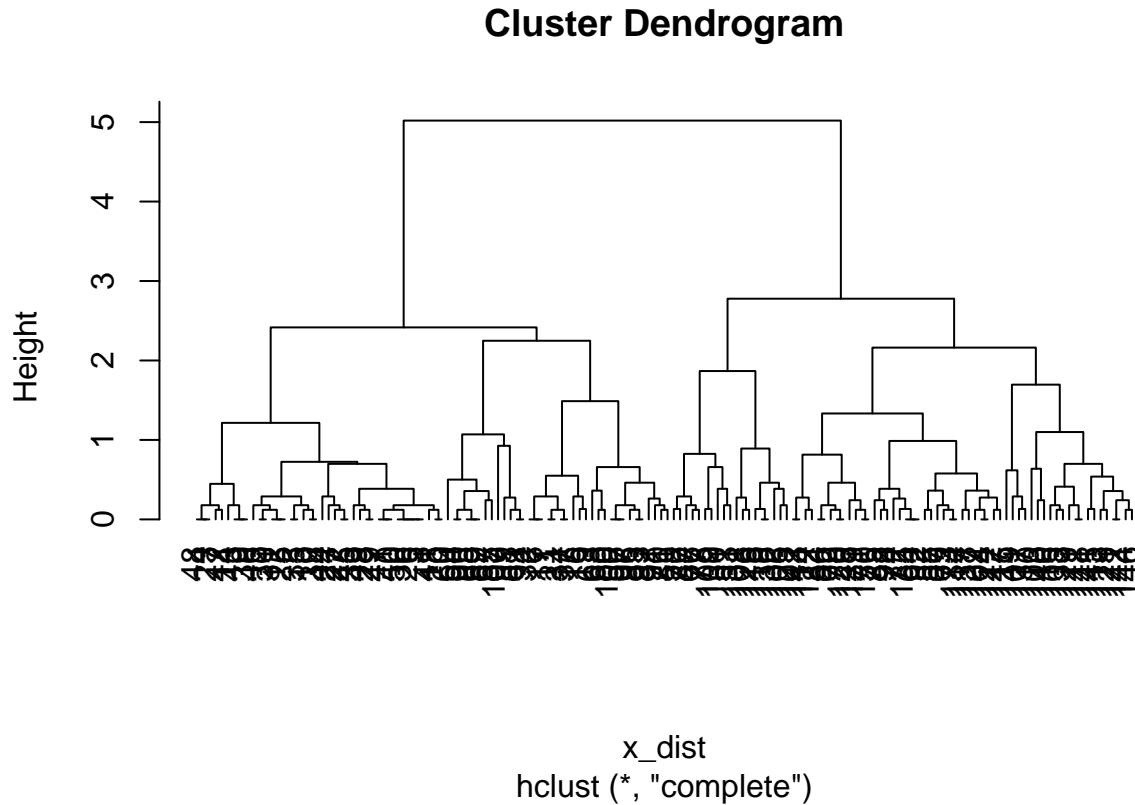
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## 149 0.5349370
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Iris dendrogram

There are broadly 4 large clusters. The clusters are relatively balanced.

```
hc_complete <- hclust(x_dist,
                      method = "complete"); plot(hc_complete, hang = -1)
```



Iris cuts

When cutting at 2nd and 3rd branches, there are 76 datapoints in the first cluster. When cutting at the 2nd branch, there are 74 datapoints in the second cluster. When cutting at the 3rd branch, there are 19 datapoints in the second cluster and 55 datapoints in the third cluster.

```
cuts <- cutree(hc_complete,
               k = c(2,3))

table(`2 Clusters` = cuts[,1],
      `3 Clusters` = cuts[,2])
```

```
##           3 Clusters
## 2 Clusters  1  2  3
##           1 76  0  0
##           2  0 19 55
```

Iris single vs complete linkage

Complete linkage creates a more balanced dendrogram than single linkage.

```

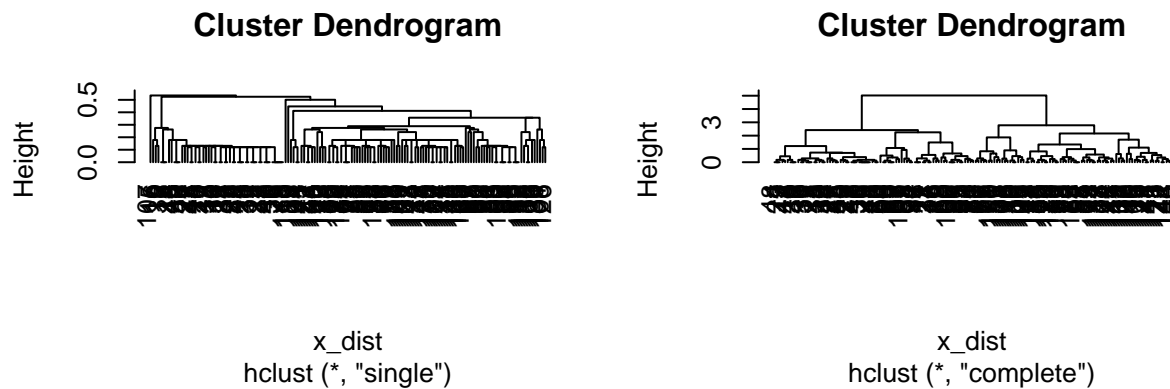
par(mfrow = c(2,2))

hc_single <- hclust(x_dist,
                  method = "single"); plot(hc_single, hang = -1)

hc_complete <- hclust(x_dist,
                    method = "complete"); plot(hc_complete, hang = -1)

par(mfrow = c(1,1))

```



Critical thinking

1. Assessing clusterability

Clusterability may be diagnosed informally through simple distribution plots, visually through VAT or ODI plots, and mathematically through sparse sampling (e.g. Hopkins). For more informal and visual techniques, we are generally looking to see if there are groups/clusters that emerge, either in terms of location, shape or density. For mathematical approaches, we compare our actual data with a simulated uniform distribution (random noise, no clusters) to see if clustering is likely.

I would not proceed if the data doesn't look clusterable, because the data would not be meaningful. Other analyses might make more sense. I might also see if the data can be clustered through other features.

2. Locate a paper

Citation: Mi, Q., Keung, J., & Yu, Y. (2016, September). Measuring the stylistic inconsistency in software projects using hierarchical agglomerative clustering. In Proceedings of the The 12th International Conference on Predictive Models and Data Analytics in Software Engineering (p. 5). ACM.

This paper attempts to measure the degree of inconsistency in programming style within a software project team using HAC. The authors propose a stylitic fingerprint technique to characterize these styles.

The authors go through similar steps that we covered this week. To set the stage for clustering, all variables were scaled so that they were comparable and contribute equally. Distance was defined as Euclidean distances. Clusterability was assessed by using the Hopkins statistic, to compare actual data with simulated randomness. The paper discusses the type of linkage method that they choose (Ward's method), which is one of the most popular methods for text-mining. Finally dendrograms are also used to visualize the results.

One extension of these findings could be to see if human judges would agree with how inconsistencies in style are categorized and picked up by the bottom-up clustering approach (pairing supervised with unsupervised approaches). Another limitation pointed out by the authors is that the metric is not very fine-grained. The inconsistency is defined at a source file level, which means anomalies in a smaller code block may not be picked up by the HAC analysis reported here