

workshop09

February 3, 2019

```
In [100]: library(tidyverse)
          library(arules)

          # Plot size deppening on your screen resolution to 5 x 3
          options(repr.plot.width=4, repr.plot.height=4)
```

1 Welcome to Workshop 9

1.0.1 Exercise 1 Replicate the slide example

Read the shopping basket

```
In [18]: basket.tr<-read.transactions("nyve.tr.csv",sep = ",")
         basket.tr
```

transactions in sparse format with
10 transactions (rows) and
15 items (columns)

Let's inspect some transactions

```
In [24]: inspect(head(basket.tr, 4))
```

```
items
[1] {Bread,
    Cream,
    Eggs,
    Fruit,
    Jam,
    Milk}
[2] {Bread,
    Cheese,
    Cream,
    crisps,
    Eggs,
    Fruit,
    Jam,
```

```

    Milk,
    Vegetables}
[3] {Beer,
    Cream,
    Fruit,
    MapleSyrup}
[4] {Bread,
    Cream,
    Fruit,
    Jam,
    Softdrink,
    Steak}

```

How to see the most frequent items?

The `eclat()` takes in transactions object and gives the most frequent items in the data, based the support you provide to the `supp` argument. The `maxlen` defines the maximum number of items in each item set of frequent items:

```

In [25]: frequentItems <- eclat(basket.tr, parameter = list(supp = 0.5, maxlen = 3)) # calculate frequent items
inspect(frequentItems)

```

Eclat

parameter specification:

```

tidLists support minlen maxlen          target  ext
FALSE      0.5      1      3 frequent itemsets FALSE

```

algorithmic control:

```

sparse sort verbose
      7      -2      TRUE

```

Absolute minimum support count: 5

create itemset ...

set transactions ... [15 item(s), 10 transaction(s)] done [0.00s].

sorting and recoding items ... [5 item(s)] done [0.00s].

creating bit matrix ... [5 row(s), 10 column(s)] done [0.00s].

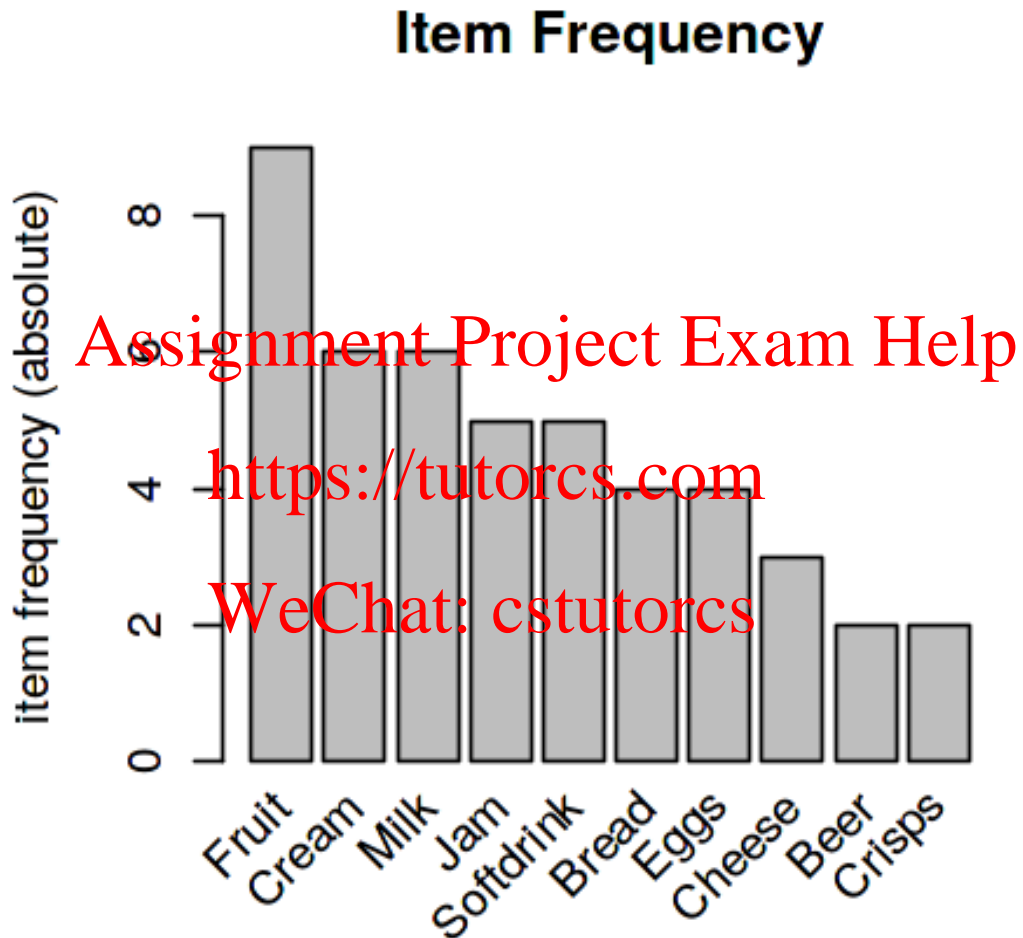
writing ... [11 set(s)] done [0.00s].

Creating S4 object ... done [0.00s].

	items	support	count
[1]	{Fruit,Softdrink}	0.5	5
[2]	{Cream,Fruit,Jam}	0.5	5
[3]	{Fruit,Jam}	0.5	5
[4]	{Cream,Jam}	0.5	5
[5]	{Fruit,Milk}	0.6	6
[6]	{Cream,Fruit}	0.6	6
[7]	{Fruit}	0.9	9

[8]	{Cream}	0.6	6
[9]	{Milk}	0.6	6
[10]	{Jam}	0.5	5
[11]	{Softdrink}	0.5	5

In [56]: `itemFrequencyPlot(basket.tr, topN=10, type="absolute", main="Item Frequency")`



Let's now perform item rule mining:

```
In [57]: basket.apriori <-apriori(basket.tr,
                                     parameter = list(supp = 0.5,
                                                         conf = 0.8,
                                                         minlen = 2 ))
```

Apriori

Parameter specification:

```
confidence minval smax arem  aval originalSupport maxtime support minlen
      0.8    0.1    1 none FALSE                TRUE      5    0.5    2
maxlen target  ext
      10  rules FALSE
```

Algorithmic control:

```
filter tree heap memopt load sort verbose
      0.1 TRUE TRUE  FALSE TRUE    2    TRUE
```

Absolute minimum support count: 5

```
set item appearances ...[0 item(s)] done [0.00s].
set transactions ...[15 item(s), 10 transaction(s)] done [0.00s].
sorting and recoding items ... [5 item(s)] done [0.00s].
creating transaction tree ... done [0.00s].
checking subsets of size 1 2 3 done [0.00s].
writing ...[9 rules] done [0.00s].
creating S4 object ... done [0.00s].
```

The output from this command gives all kinds of details of what has been done and how long it takes, but the output that interests us can be obtained with the command:

```
In [58]: inspect(basket.apriori)
```

	lhs	rhs	support	confidence	lift	count
[1]	{Softdrink}	=> {Fruit}	0.5	1.0000000	1.111111	5
[2]	{Jam}	=> {Cream}	0.5	1.0000000	1.666667	5
[3]	{Cream}	=> {Jam}	0.5	0.8333333	1.666667	5
[4]	{Jam}	=> {Fruit}	0.5	1.0000000	1.111111	5
[5]	{Milk}	=> {Fruit}	0.6	1.0000000	1.111111	6
[6]	{Cream}	=> {Fruit}	0.6	1.0000000	1.111111	6
[7]	{Cream,Jam}	=> {Fruit}	0.5	1.0000000	1.111111	5
[8]	{Fruit,Jam}	=> {Cream}	0.5	1.0000000	1.666667	5
[9]	{Cream,Fruit}	=> {Jam}	0.5	0.8333333	1.666667	5

Thus the output consists of nine association rules. * The column lhs provides their antecedents, rhs provides their consequents. * The column support provides the support of the total itemset for that transaction (e.g. from rule 1, the support of the itemset {softdrink, fruit} is 0.5). * The next column (confidence) tells us that a shopping basket that contains jam is sure to contain cream. For example (rules 2 and 3), 100% of the time if there is Jam there is Cream, but only 83% of the time, if there is Cream there is Jam. Of course these figures are just for the current data set. In the future, we don't expect that every time cream is purchased, so will jam. * The final column (lift) tells us for example (association rule 2) that the likelihood of cream when there is jam is 1.667 (or 5/3) times the likelihood among all transactions.

Now let's have a look at the parameters that can be specified in the apriori command. These are all requirements that must be fulfilled by an association rule if they are to be listed.

* supp = 0.5 means that the support of the total itemset must be at least 0.5; * conf = 0.8 means that if the antecedents are present in the shopping basket, there must be at least a 80% probability that the consequent is in the basket; * minlen = 2 means that there must be at least 2 items in the total itemset (this avoids either the antecedent or the consequent being empty.)

What is the correct value of the parameters to choose? The real point is to obtain association rules that are useful. An association rule is truly useful if

- * When the antecedents hold, the consequent is very likely to hold
- * That is, the confidence is high
- * The antecedents strongly increase the likelihood of the consequent;
- * That is the lift is reasonably large
- * It explains a previously unknown relationship.
- * This is beyond what the calculations can tell you.
- * A rule will not be useful if it applies to hardly any baskets. However, if the dataset (and your business) is sufficiently large, you may be interested in rules whose itemsets have relatively low support, as we will see with the lastfm example below.

The precise values to be attached to all these conditions depend on the size of the dataset, and what resources you have to investigate rules that are suggested. Once the list of conditions is obtained, someone has to work through them and decide what to do about them.

1.0.2 Exercise 2: Application of Association Analysis to online radio recommendations.

Now that we have some idea how the process works, let's look at a real and very large dataset where we might hope to get association rules that have interesting interpretations. This large dataset will involve some extra care with inputting the data, but the main analysis is essentially the same.

Load the file lastfm.csv as a dataframe and print out the first rows

```
In [110]: lastfm.df <- read.table("lastfm.csv", header = TRUE, sep = ",")
lastfm.df <- lastfm.df %>%
  filter(country=="China")
lastfm.df
```

user	artist	sex	country
232	the fray	f	China
232	keane	f	China
232	franz ferdinand	f	China
1347	mono	f	China
1347	sigur rós	f	China
1347	nick drake	f	China
1347	blur	f	China
1347	jason mraz	f	China
1347	kings of convenience	f	China
1347	rufus wainwright	f	China
1347	mogwai	f	China
1519	linkin park	f	China
1519	jem	f	China
1519	foo fighters	f	China
1519	kt tunstall	f	China
1519	dido	f	China
1519	avril lavigne	f	China
1519	sarah mclachlan	f	China
1519	natasha bedingfield	f	China
1519	amy macdonald	f	China
1519	katie melua	f	China
1519	maria mena	f	China
1519	the corr	f	China
1519	sheryl crow	f	China
1519	colbie caillat	f	China
1519	nelly furtado	f	China
1519	danny elfman	f	China
1519	aimee mann	f	China
1519	shakira	f	China
1519	paolo nutini	f	China
18800	the strokes	f	China
18800	mgmt	f	China
19223	silverstein	f	China
19223	escape the fate	f	China
19223	a day to remember	f	China
19223	saosin	f	China
19223	senses fail	f	China
19223	bring me the horizon	f	China
19223	new found glory	f	China
19223	story of the year	f	China
19223	chiodos	f	China
19223	bullet for my valentine	f	China
19223	underoath	f	China
19223	the all-american rejects	f	China
19223	emery	f	China
19223	simple plan	f	China
19445	tom waits	m	China
19445	joni mitchell	m	China
19445	bonnie prince billy	m	China
19445	cat stevens	m	China
19445	nick cave and the bad seeds	m	China

Assignment Project Exam Help

<https://tutorcs.com>

WeChat: cstutorcs

In supermarket terminology, think of user as shoppers and artists as the items bought.

The user is represented by a number which will be automatically classified as numeric. Turn this variable into a factor: (I hope you all remember workshop 1 :)

```
In [111]: lastfm.df$user <- factor(lastfm.df$user)
```

We are aiming to create a list for each user, of the artists they have listened to. This effectively turns the data into transaction form, just as the market basket analysis completed earlier. We will call this list playlist. We get the playlist by using the command split

```
In [112]: playlist <- split(x = lastfm.df[, 'artist'], f = lastfm.df$user)
```

split divides the data in the vector x into the groups defined by f (f stands for factor) * x is the "artist" column of the data frame lastfm . * For each f (that is, for each user), split picks out those artists that the user has purchased. * Look at the original dataframe above to think about this.

To understand what this does, first ask in the console window for a printout of the first 5 elements of playlist:

```
In [113]: playlist[1:5]
```

\$'232' 1. the flay 2. leane 3. franz Ferdinand

Levels: 1. '2pac' 2. '30 seconds to mars' 3. '311' 4. '36 crazyfists' 5. '3 doors down' 6. '44' 7. '50 cent' 8. '65daysofstatic' 9. 'abba' 10. 'above & beyond' 11. 'ac/dc' 12. 'adam green' 13. 'a day to remember' 14. 'adele' 15. 'adema' 16. 'aerosmith' 17. 'aesop rock' 18. 'afi' 19. 'a fine frenzy' 20. 'after forever' 21. 'against me!' 22. 'agalloch' 23. 'a-ha' 24. 'aimee mann' 25. 'air' 26. 'akira yamaoka' 27. 'akon' 28. 'akurat' 29. 'alanis morissette' 30. 'alesana' 31. 'alexison-fire' 32. 'al green' 33. 'alice cooper' 34. 'alice in chains' 35. 'alicia keys' 36. 'alkaline trio' 37. 'all shall perish' 38. 'all that remains' 39. 'all time low' 40. 'alter bridge' 41. 'amon amarth' 42. 'amon tobin' 43. 'amorphis' 44. 'amy macdonald' 45. 'amy winehouse' 46. 'anathema' 47. 'anberlin' 48. 'andrew bird' 49. 'andrew lloyd webber' 50. '...and you will know us by the trail of dead' 51. 'angels & airwaves' 52. 'angra' 53. 'ani difranco' 54. 'animal collective' 55. 'anna ternheim' 56. 'anthrax' 57. 'anti-flag' 58. 'antonio vivaldi' 59. 'antony and the johnsons' 60. 'a perfect circle' 61. 'apex twin' 62. 'apocalyptica' 63. 'apoptygma berzerk' 64. 'apparat' 65. 'arcade fire' 66. 'arch enemy' 67. 'architecture in helsinki' 68. 'archive' 69. 'arctic monkeys' 70. 'aretha franklin' 71. 'armin van buuren' 72. 'ashlee simpson' 73. 'asian dub foundation' 74. 'as i lay dying' 75. 'atb' 76. 'atmosphere' 77. 'atreyu' 78. 'a tribe called quest' 79. 'at the drive-in' 80. 'at the gates' 81. 'audioslave' 82. 'autechre' 83. 'avantasia' 84. 'avenged sevenfold' 85. 'avril lavigne' 86. 'ayreon' 87. 'babyshambles' 88. 'backstreet boys' 89. 'bad brains' 90. 'badly drawn boy' 91. 'bad religion' 92. 'band of horses' 93. 'bare-naked ladies' 94. 'basement jaxx' 95. 'basshunter' 96. 'bat for lashes' 97. 'bathory' 98. 'battles' 99. 'bauhaus' 100. 'beastie boys' 101. 'beatsteaks' 102. 'beck' 103. 'bee gees' 104. 'behemoth' 105. 'beirut' 106. 'belle and sebastian' 107. 'ben folds' 108. 'ben folds five' 109. 'ben harper' 110. 'benny benassi' 111. 'beyoncé' 112. 'biffy clyro' 113. 'billie holiday' 114. 'billy joel' 115. 'billy talent' 116. 'björk' 117. 'black eyed peas' 118. 'blackfield' 119. 'black flag' 120. 'black label society' 121. 'black rebel motorcycle club' 122. 'black sabbath' 123. 'blank & jones' 124. 'blind guardian' 125. 'blink-182' 126. 'bloc party' 127. 'blonde redhead' 128. 'blondie' 129. 'bloodbath' 130. 'bloodhound gang' 131. 'blur' 132. 'boards of canada' 133. 'bob Dylan' 134. 'bob marley' 135. 'bob marley & the wailers' 136. 'böhse onkelz' 137. 'bon iver'

138. 'bon jovi' 139. 'bonnie prince billy' 140. 'bonobo' 141. 'booka shade' 142. 'bowling for soup' 143. 'boys like girls' 144. 'boys noize' 145. 'brand new' 146. 'breaking benjamin' 147. 'brian eno' 148. 'bright eyes' 149. 'bring me the horizon' 150. 'britney spears' 151. 'broken social scene' 152. 'bruce springsteen' 153. 'bryan adams' 154. 'buckethead' 155. 'buena vista social club' 156. 'built to spill' 157. 'bullet for my valentine' 158. 'burial' 159. 'burzum' 160. 'bush' 161. 'busta rhymes' 162. 'buzzcocks' 163. 'caetano veloso' 164. 'cake' 165. 'calexico' 166. 'caliban' 167. 'calvin harris' 168. 'camel' 169. 'camera obscura' 170. 'cannibal corpse' 171. 'cansei de ser sexy' 172. 'captain beefheart & his magic band' 173. 'carcass' 174. 'carla bruni' 175. 'cascada' 176. 'cat power' 177. 'cat stevens' 178. 'céline dion' 179. 'chamillionaire' 180. 'charlie parker' 181. 'chet baker' 182. 'chevelle' 183. 'chicane' 184. 'chico buarque' 185. 'children of bodom' 186. 'chimaira' 187. 'chiodos' 188. 'chris brown' 189. 'chris cornell' 190. 'christina aguilera' 191. 'chromeo' 192. 'circa survive' 193. 'city and colour' 194. 'clap your hands say yeah' 195. 'clint mansell' 196. 'clueso' 197. 'cobra starship' 198. 'cocosie' 199. 'cocteau twins' 200. 'coheed and cambria' 201. 'colbie caillat' 202. 'coldplay' 203. 'cold war kids' 204. 'coma' 205. 'combichrist' 206. 'comeback kid' 207. 'common' 208. 'converge' 209. 'corinne bailey rae' 210. 'counting crows' 211. 'cradle of filth' 212. 'craig david' 213. 'cream' 214. 'creed' 215. 'creedence clearwater revival' 216. 'crystal castles' 217. 'cunninglynguists' 218. 'cursive' 219. 'cut copy' 220. 'cute is what we aim for' 221. 'cypress hill' 222. 'daft punk' 223. 'damian marley' 224. 'damien rice' 225. 'danny elfman' 226. 'dark-throne' 227. 'dark tranquility' 228. 'dash board confession' 229. 'dave mathews band' 230. 'david bowie' 231. 'david gray' 232. 'david guetta' 233. 'dead can dance' 234. 'dead kennedys' 235. 'death' 236. 'death cab for cutie' 237. 'death from above 1979' 238. 'death-stars' 239. 'deep purple' 240. 'deerhoof' 241. 'deerhunter' 242. 'def leppard' 243. 'deftones' 244. 'deichkind' 245. 'de la soul' 246. 'delirium' 247. 'depeche mode' 248. 'de-phazz' 249. 'descendents' 250. 'dethklok' 251. 'deus' 252. 'devendra banhart' 253. 'devildriver' 254. 'devo' 255. 'diana krall' 256. 'dido' 257. 'die apokalyptischen reiter' 258. 'die Ärzte' 259. 'die toten hosen' 260. 'digitalism' 261. 'dimmu borgir' 262. 'dinosaur jr.' 263. 'dio' 264. 'dir en grey' 265. 'dire straits' 266. 'dirty pretty things' 267. 'disturbed' 268. 'dizzee rascal' 269. 'django reinhardt' 270. 'dj krush' 271. 'dj shadow' 272. 'dmx' 273. 'dope' 274. 'doves' 275. 'down' 276. 'dragonforce' 277. 'dr. dre' 278. 'dream theater' 279. 'dredg' 280. 'dropkick murphys' 281. 'drowning pool' 282. 'duffy' 283. 'duran duran' 284. 'eagles' 285. 'eagles of death metal' 286. 'echo & the bunnymen' 287. 'eddie vedder' 288. 'edguy' 289. 'Édith piaf' 290. 'editors' 291. 'eels' 292. 'einstürzende neubauten' 293. 'elbow' 294. 'electric light orchestra' 295. 'electric six' 296. 'ella fitzgerald' 297. 'elliott smith' 298. 'elton john' 299. 'eluveitie' 300. 'elvis costello' 301. 'elvis presley' 302. 'emery' 303. 'emiliana torrini' 304. 'emilie autumn' 305. 'emilie simon' 306. 'eminem' 307. 'enigma' 308. 'ennio morricone' 309. 'enrique iglesias' 310. 'ensiferum' 311. 'enter shikari' 312. 'enya' 313. 'epica' 314. 'equilibrium' 315. 'era' 316. 'eric clapton' 317. 'erykah badu' 318. 'escape the fate' 319. 'evanescence' 320. 'explosions in the sky' 321. 'faithless' 322. 'faith no more' 323. 'fall out boy' 324. 'farin urlaub' 325. 'fatboy slim' 326. 'fear factory' 327. 'feeder' 328. 'feist' 329. 'fergie' 330. 'ferry corsten' 331. 'final fantasy' 332. 'finch' 333. 'finntroll' 334. 'fiona apple' 335. 'fischerspooner' 336. 'fleet foxes' 337. 'fleetwood mac' 338. 'flight of the conchords' 339. 'flogging molly' 340. 'flo rida' 341. 'flying lotus' 342. 'flyleaf' 343. 'foals' 344. 'foo fighters' 345. 'fort minor' 346. 'four tet' 347. 'frank sinatra' 348. 'frank zappa' 349. 'franz ferdinand' 350. 'frédéric chopin' 351. 'from autumn to ashes' 352. 'from first to last' 353. 'frou frou' 354. 'fugazi' 355. 'funeral for a friend' 356. 'gamma ray' 357. 'gang starr' 358. 'garbage' 359. 'gavin degraw' 360. 'genesis' 361. 'gentleman' 362. 'george michael' 363. 'ghostface' 364. 'girls aloud' 365. 'girl talk' 366. 'gnarls barkley' 367. 'god is an astronaut' 368. 'godsmack' 369. 'godspeed you! black emperor' 370. 'gogol

bordello' 371. 'gojira' 372. 'goldfinger' 373. 'goldfrapp' 374. 'good charlotte' 375. 'goo goo dolls' 376. 'gorillaz' 377. 'gotan project' 378. 'grateful dead' 379. 'green day' 380. 'grizzly bear' 381. 'groove armada' 382. 'groove coverage' 383. 'guano apes' 384. 'guided by voices' 385. 'guns n roses' 386. 'gwen stefani' 387. 'gym class heroes' 388. 'haggard' 389. 'håkan hellström' 390. 'hammerfall' 391. 'hans zimmer' 392. 'happysad' 393. 'hard-fi' 394. 'hatebreed' 395. 'heaven shall burn' 396. 'hellogoodbye' 397. 'halloween' 398. 'herbie hancock' 399. 'hercules and love affair' 400. 'hey' 401. 'high contrast' 402. 'hilarly duff' 403. 'him' 404. 'hoobastank' 405. 'hooverphonic' 406. 'hot chip' 407. 'hot hot heat' 408. 'howard shore' 409. 'hypocrisy' 410. 'iamx' 411. 'ice cube' 412. 'iced earth' 413. 'iggy pop' 414. 'ignite' 415. 'ill niño' 416. 'immortal' 417. 'immortal technique' 418. 'imogen heap' 419. 'incubus' 420. 'in extremo' 421. 'infected mushroom' 422. 'in flames' 423. 'interpol' 424. 'inxs' 425. 'iron maiden' 426. 'iron & wine' 427. 'isis' 428. 'jack johnson' 429. 'james blunt' 430. 'james brown' 431. 'james morrison' 432. 'jamie cullum' 433. 'jamiroquai' 434. 'janet jackson' 435. 'janis joplin' 436. 'jason mraz' 437. 'jay-z' 438. 'jazzanova' 439. 'j dilla' 440. 'jedi mind tricks' 441. 'jeff buckley' 442. 'jefferson airplane' 443. 'jem' 444. 'jennifer lopez' 445. 'jens lekman' 446. 'jet' 447. 'jethro tull' 448. 'jimi hendrix' 449. 'jimmy eat world' 450. 'joanna newsom' 451. 'joe satriani' 452. 'johann sebastian bach' 453. 'john coltrane' 454. 'john frusciante' 455. 'john legend' 456. 'john lennon' 457. 'john mayer' 458. 'johnny cash' 459. 'john williams' 460. 'jonas brothers' 461. 'joni mitchell' 462. 'jordin sparks' 463. 'josé gonzález' 464. 'joshua radin' 465. 'joss stone' 466. 'journey' 467. 'joy division' 468. 'judas priest' 469. 'junior boys' 470. 'jurassic 5' 471. 'justice' 472. 'justin timberlake' 473. 'kaiser chiefs' 474. 'kamelot' 475. 'kanye west' 476. 'kasabian' 477. 'katatonia' 478. 'kate bush' 479. 'kate nash' 480. 'katie melua' 481. 'katy perry' 482. 'keane' 483. 'kelly clarkson' 484. 'kent' 485. 'killswitch engage' 486. 'kimya dalyson' 487. 'king crimson' 488. 'kings of convenience' 489. 'kings of leon' 490. 'kiss' 491. 'klaxons' 492. 'kmfdm' 493. 'koop' 494. 'korpiklaani' 495. 'kosheen' 496. 'kon' 497. 'kraftwerk' 498. 'kreator' 499. 'kt tunstall' 500. 'kult' 501. 'kylie minogue' 502. 'kyuss' 503. 'lacrimosa' 504. 'lacuna coil' 505. 'lady gaga' 506. 'ladytron' 507. 'lagwagon' 508. 'lamb' 509. 'lamb of god' 510. 'late of the pier' 511. 'led soundsystem' 512. 'led zeppelin' 513. 'lenny kravitz' 514. 'leona lewis' 515. 'leonard cohen' 516. 'less than jake' 517. 'le tigre' 518. 'lifecycle' 519. 'lil wayne' 520. 'lily allen' 521. 'limp bizkit' 522. 'linkin park' 523. 'live' 524. 'lordi' 525. 'loreena mckennitt' 526. 'los hermanos' 527. 'lostprophets' 528. 'louis armstrong' 529. 'lou reed' 530. 'low' 531. 'ludacris' 532. 'ludwig van beethoven' 533. 'lupe fiasco' 534. 'lykke li' 535. 'lynnyrd skynyrd' 536. 'm83' 537. 'machine head' 538. 'madlib' 539. 'madness' 540. 'madonna' 541. 'madvillain' 542. 'mae' 543. 'mando diao' 544. 'manic street preachers' 545. 'manowar' 546. 'manu chao' 547. 'mariah carey' 548. 'maria mena' 549. 'marillion' 550. 'marilyn manson' 551. 'mark ronson' 552. 'maroon 5' 553. 'marvin gaye' 554. 'mary j. blige' 555. 'massive attack' 556. 'mastodon' 557. 'matchbox twenty' 558. 'matisyahu' 559. 'maximo park' 560. 'max richter' 561. 'me first and the gimme gimmes' 562. 'megadeth' 563. 'melvins' 564. 'meshuggah' 565. 'metallica' 566. 'metric' 567. 'metro station' 568. 'mew' 569. 'mf doom' 570. 'mgmt' 571. 'm.i.a.' 572. 'michael bublé' 573. 'michael jackson' 574. 'mika' 575. 'mike oldfield' 576. 'miles davis' 577. 'miley cyrus' 578. 'millencolin' 579. 'mindless self indulgence' 580. 'ministry' 581. 'minor threat' 582. 'minus the bear' 583. 'mirah' 584. 'misfits' 585. 'missy elliott' 586. 'mobb deep' 587. 'moby' 588. 'modest mouse' 589. 'mogwai' 590. 'moloko' 591. 'mono' 592. 'moonspell' 593. 'morbid angel' 594. 'morceeba' 595. 'morphine' 596. 'morrisey' 597. 'mos def' 598. 'motion city soundtrack' 599. 'mötley crüe' 600. 'motörhead' 601. 'mr. scruff' 602. 'mudvayne' 603. 'múm' 604. 'muse' 605. 'm. ward' 606. 'my bloody valentine' 607. 'my chemical romance' 608. 'my dying bride' 609. 'mylo' 610. 'my morning jacket' 611. 'myslovitz' 612. 'nada surf' 613. 'na-

palm death' 614. 'nas' 615. 'natasha bedingfield' 616. 'neil young' 617. 'neko case' 618. 'nelly' 619. 'nelly furtado' 620. 'n*e*r*d' 621. 'neutral milk hotel' 622. 'new found glory' 623. 'new order' 624. 'ne-yo' 625. 'nick cave and the bad seeds' 626. 'nick drake' 627. 'nickelback' 628. 'nightmares on wax' 629. 'nightwish' 630. 'nile' 631. 'nina simone' 632. 'nine inch nails' 633. 'nirvana' 634. 'no doubt' 635. 'nofx' 636. 'norah jones' 637. 'norther' 638. 'notorious b.i.g.' 639. 'nouvelle vague' 640. 'oasis' 641. 'of montreal' 642. 'ok go' 643. 'okkervil river' 644. 'onerepublic' 645. 'oomph!' 646. 'opeth' 647. 'orbital' 648. 'o.s.t.r.' 649. 'otis redding' 650. 'outkast' 651. 'ozzy osbourne' 652. 'pain' 653. 'pain of salvation' 654. 'panic at the disco' 655. 'panic! at the disco' 656. 'pantera' 657. 'paolo nutini' 658. 'papa roach' 659. 'paradise lost' 660. 'paramore' 661. 'parkway drive' 662. 'parov stelar' 663. 'patrick wolf' 664. 'paul mccartney' 665. 'paul oakenfold' 666. 'paul simon' 667. 'paul van dyk' 668. 'pavement' 669. 'peaches' 670. 'pearl jam' 671. 'pendulum' 672. 'pennywise' 673. 'peter bjorn and john' 674. 'peter fox' 675. 'peter gabriel' 676. 'pet shop boys' 677. 'phil collins' 678. 'philip glass' 679. 'phoenix' 680. 'pidama porno' 681. 'pinback' 682. 'pink' 683. 'pink floyd' 684. 'pink martini' 685. 'pixies' 686. 'pj harvey' 687. 'placebo' 688. 'plaid' 689. 'plain white ts' 690. 'p.o.d.' 691. 'poets of the fall' 692. 'porcupine tree' 693. 'portishead' 694. 'prefuse 73' 695. 'primal scream' 696. 'primus' 697. 'prince' 698. 'public enemy' 699. 'pulp' 700. 'queen' 701. 'queens of the stone age' 702. 'queensrÿche' 703. 'radiohead' 704. 'rage against the machine' 705. 'rainbow' 706. 'rammstein' 707. 'ramones' 708. 'rancid' 709. 'ratt' 710. 'r.e.m.' 711. 'ray la montagne' 712. 'razor light' 713. 'red hot chili peppers' 714. 'red jumpsuit apparatus' 715. 'reel big fish' 716. 'refused' 717. 'regina spektr' 718. 'reliant k' 719. 'r.e.m.' 720. 'rhapsody of fire' 721. 'richard cheese' 722. 'rihanna' 723. 'rilo kiley' 724. 'rise against' 725. 'riverside' 726. 'rjd2' 727. 'robbie williams' 728. 'robyn' 729. 'rob zombie' 730. 'rosin multiply' 731. 'roo's manna' 732. 'roxette' 733. 'röyksopp' 734. 'rufus wainwright' 735. 'rush' 736. 'ryan adams' 737. 'sabaton' 738. 'sade' 739. 'sage francis' 740. 'samael' 741. 'santana' 742. 'santogold' 743. 'saosin' 744. 'sara bareilles' 745. 'sarah mclachlan' 746. 'savyricon' 747. 'saves the day' 748. 'say anything' 749. 'scar symmetry' 750. 'schandmaul' 751. 'scissor sisters' 752. 'scooter' 753. 'scorpions' 754. 'seal' 755. 'sean paul' 756. 'seeed' 757. 'seether' 758. 'senses fail' 759. 'sentenced' 760. 'september' 761. 'sepultura' 762. 'serge gainsbourg' 763. 'serj tankian' 764. 'sex pistols' 765. 'shakira' 766. 'sheryl crow' 767. 'she wants revenge' 768. 'shiny toy guns' 769. 'shout out louds' 770. 'shponggle' 771. 'sia' 772. 'sigur rós' 773. 'silverchair' 774. 'silverstein' 775. 'simian mobile disco' 776. 'simon & garfunkel' 777. 'simple plan' 778. 'siouxsie and the banshees' 779. 'sirenia' 780. 'ska-p' 781. 'skid row' 782. 'skillet' 783. 'skinny puppy' 784. 'slayer' 785. 'slipknot' 786. 'slowdive' 787. 'sneaker pimps' 788. 'snoop dogg' 789. 'snow patrol' 790. 'social distortion' 791. 'sodom' 792. 'soilwork' 793. 'something corporate' 794. 'sonata arctica' 795. 'sonic syndicate' 796. 'sonic youth' 797. 'soulfly' 798. 'soundgarden' 799. 'soundtrack' 800. 'spice girls' 801. 'spoon' 802. 'squarepusher' 803. 'staind' 804. 'stars' 805. 'static-x' 806. 'steely dan' 807. 'stereolab' 808. 'stereophonics' 809. 'stevie wonder' 810. 'st. germain' 811. 'sting' 812. 'stone sour' 813. 'stone temple pilots' 814. 'story of the year' 815. 'strapping young lad' 816. 'stratovarius' 817. 'streetlight manifesto' 818. 'sublime' 819. 'subway to sally' 820. 'sufjan stevens' 821. 'sugababes' 822. 'sugarcult' 823. 'sum 41' 824. 'supergrass' 825. 'supertramp' 826. 'switchfoot' 827. 'symphony x' 828. 'system of a down' 829. 'taking back sunday' 830. 'talib kweli' 831. 'talking heads' 832. 'tarja turunen' 833. 't.a.t.u.' 834. 'taylor swift' 835. 'tegan and sara' 836. 'télépopmusik' 837. 'tenacious d' 838. 'testament' 839. 'the 69 eyes' 840. 'the academy is...' 841. 'the album leaf' 842. 'the all-american rejects' 843. 'the arcade fire' 844. 'the ataris' 845. 'theatre of tragedy' 846. 'the beach boys' 847. 'the beatles' 848. 'the birthday massacre' 849. 'the black dahlia murder' 850. 'the black keys' 851. 'the blood broth-

ers' 852. 'the books' 853. 'the bouncing souls' 854. 'the bravery' 855. 'the breeders' 856. 'the brian jonestown massacre' 857. 'the byrds' 858. 'the cardigans' 859. 'the chemical brothers' 860. 'the cinematic orchestra' 861. 'the clash' 862. 'the corrs' 863. 'the cranberries' 864. 'the cribs' 865. 'the crystal method' 866. 'the cure' 867. 'the dandy warhols' 868. 'the decemberists' 869. 'the dillinger escape plan' 870. 'the distillers' 871. 'the doors' 872. 'the dresden dolls' 873. 'the faint' 874. 'the fall' 875. 'the fall of troy' 876. 'the flaming lips' 877. 'the flashbulb' 878. 'the fratellis' 879. 'the fray' 880. 'the future sound of london' 881. 'the game' 882. 'the gathering' 883. 'the get up kids' 884. 'the gossip' 885. 'the go! team' 886. 'the haunted' 887. 'the hellcopters' 888. 'the herbaliser' 889. 'the hives' 890. 'the hush sound' 891. 'the jam' 892. 'the jesus and mary chain' 893. 'the jimi hendrix experience' 894. 'the killers' 895. 'the kills' 896. 'the kinks' 897. 'the knife' 898. 'the kooks' 899. 'the last shadow puppets' 900. 'the libertines' 901. 'the magnetic fields' 902. 'the mars volta' 903. 'the mountain goats' 904. 'the national' 905. 'the new pornographers' 906. 'the notwist' 907. 'the offspring' 908. 'the pigeon detectives' 909. 'the pipettes' 910. 'the pogues' 911. 'the police' 912. 'the postal service' 913. 'the presets' 914. 'the prodigy' 915. 'the pussycat dolls' 916. 'the raconteurs' 917. 'the radio dept.' 918. 'the rapture' 919. 'the rasmus' 920. 'the raveonettes' 921. 'therion' 922. 'the rolling stones' 923. 'the roots' 924. 'the shins' 925. 'the sisters of mercy' 926. 'the smashing pumpkins' 927. 'the smiths' 928. 'the sounds' 929. 'the specials' 930. 'the stone roses' 931. 'the streets' 932. 'the strokes' 933. 'the subways' 934. 'the ting tings' 935. 'the used' 936. 'the velvet underground' 937. 'the veronicas' 938. 'the verve' 939. 'the vines' 940. 'the weakerthans' 941. 'the whitest boy alive' 942. 'the white stripes' 943. 'the who' 944. 'the wombats' 945. 'they might be giants' 946. 'the zombies' 947. 'thievery corporation' 948. 'thin lizzy' 949. 'third eye blind' 950. 'thomas newman' 951. 'thom yorke' 952. 'three days grace' 953. 'thrice' 954. 'thursday' 955. 'ti' 956. 'tina turner' 957. 'tisto' 958. 'timbaland' 959. 'tokyo police club' 960. 'tom petty and the heartbreakers' 961. 'tom waits' 962. 'tool' 963. 'tori amos' 964. 'tortoise' 965. 'tosca' 966. 'toto' 967. 'tracy chapman' 968. 'travis' 969. 'trentemøller' 970. 't. rex' 971. 'ticky' 972. 'tristana' 973. 'trivium' 974. 'turbonegro' 975. 'turusas' 976. 'tv on the radio' 977. 'type o negative' 978. 'u2' 979. 'uiv' 980. 'underoath' 981. 'underworld' 982. 'unkle' 983. '[unknown]' 984. 'usher' 985. 'vader' 986. 'vampire weekend' 987. 'vangelis' 988. 'van halen' 989. 'van morrison' 990. 'various artists' 991. 'velvet revolver' 992. 'venetian snares' 993. 'vnnv nation' 994. 'volbeat' 995. 'weezer' 996. 'wilco' 997. 'within temptation' 998. 'wolfgang amadeus mozart' 999. 'wu-tang clan' 1000. 'yann tiersen' 1001. 'yeah yeah yeahs' 1002. 'yellowcard' 1003. 'yo la tengo' 1004. 'zero 7'

\$1347' 1. mono 2. sigur rós 3. nick drake 4. blur 5. jason mraz 6. kings of convenience 7. rufus wainwright 8. mogwai

Levels: 1. '2pac' 2. '30 seconds to mars' 3. '311' 4. '36 crazyfists' 5. '3 doors down' 6. '44' 7. '50 cent' 8. '65daysofstatic' 9. 'abba' 10. 'above & beyond' 11. 'ac/dc' 12. 'adam green' 13. 'a day to remember' 14. 'adele' 15. 'adema' 16. 'aerosmith' 17. 'aesop rock' 18. 'afi' 19. 'a fine frenzy' 20. 'after forever' 21. 'against me!' 22. 'agalloch' 23. 'a-ha' 24. 'aimee mann' 25. 'air' 26. 'akira yamaoka' 27. 'akon' 28. 'akurat' 29. 'alanis morissette' 30. 'alesana' 31. 'alexison-fire' 32. 'al green' 33. 'alice cooper' 34. 'alice in chains' 35. 'alicia keys' 36. 'alkaline trio' 37. 'all shall perish' 38. 'all that remains' 39. 'all time low' 40. 'alter bridge' 41. 'amon amarth' 42. 'amon tobin' 43. 'amorphis' 44. 'amy macdonald' 45. 'amy winehouse' 46. 'anathema' 47. 'anberlin' 48. 'andrew bird' 49. 'andrew lloyd webber' 50. '...and you will know us by the trail of dead' 51. 'angels & airwaves' 52. 'angra' 53. 'ani difranco' 54. 'animal collective' 55. 'anna ternheim' 56. 'anthrax' 57. 'anti-flag' 58. 'antonio vivaldi' 59. 'antony and the johnsons' 60. 'a perfect circle' 61. 'aphex twin' 62. 'apocalyptica' 63. 'apoptygma berzerk' 64. 'ap-

parat' 65. 'arcade fire' 66. 'arch enemy' 67. 'architecture in helsinki' 68. 'archive' 69. 'arctic monkeys' 70. 'aretha franklin' 71. 'armin van buuren' 72. 'ashlee simpson' 73. 'asian dub foundation' 74. 'as i lay dying' 75. 'atb' 76. 'atmosphere' 77. 'atreya' 78. 'a tribe called quest' 79. 'at the drive-in' 80. 'at the gates' 81. 'audioslave' 82. 'autechre' 83. 'avantasia' 84. 'avenged sevenfold' 85. 'avril lavigne' 86. 'ayreon' 87. 'babyshambles' 88. 'backstreet boys' 89. 'bad brains' 90. 'badly drawn boy' 91. 'bad religion' 92. 'band of horses' 93. 'bare-naked ladies' 94. 'basement jaxx' 95. 'basshunter' 96. 'bat for lashes' 97. 'bathory' 98. 'battles' 99. 'bauhaus' 100. 'beastie boys' 101. 'beatsteaks' 102. 'beck' 103. 'bee gees' 104. 'behemoth' 105. 'beirut' 106. 'belle and sebastian' 107. 'ben folds' 108. 'ben folds five' 109. 'ben harper' 110. 'benny benassi' 111. 'beyoncé' 112. 'biffy clyro' 113. 'billie holiday' 114. 'billy joel' 115. 'billy talent' 116. 'björk' 117. 'black eyed peas' 118. 'blackfield' 119. 'black flag' 120. 'black label society' 121. 'black rebel motorcycle club' 122. 'black sabbath' 123. 'blank & jones' 124. 'blind guardian' 125. 'blink-182' 126. 'bloc party' 127. 'blonde redhead' 128. 'blondie' 129. 'bloodbath' 130. 'bloodhound gang' 131. 'blur' 132. 'boards of canada' 133. 'bob dylan' 134. 'bob marley' 135. 'bob marley & the wailers' 136. 'böhse onkelz' 137. 'bon iver' 138. 'bon jovi' 139. 'bonnie prince billy' 140. 'bonobo' 141. 'booka shade' 142. 'bowling for soup' 143. 'boys like girls' 144. 'boys noize' 145. 'brand new' 146. 'breaking benjamin' 147. 'brian eno' 148. 'bright eyes' 149. 'bring me the horizon' 150. 'britney spears' 151. 'broken social scene' 152. 'bruce springsteen' 153. 'bryan adams' 154. 'buckethead' 155. 'buena vista social club' 156. 'bulleted pill' 157. 'bullet for my valentine' 158. 'burial' 159. 'burzum' 160. 'bush' 161. 'busta rhymes' 162. 'buzzcocks' 163. 'caetano veloso' 164. 'cake' 165. 'calexico' 166. 'caliban' 167. 'calvin harris' 168. 'camel' 169. 'camera obscura' 170. 'cannibal corpse' 171. 'cansei de ser sexy' 172. 'captain beefheart & his magic band' 173. 'carcass' 174. 'carla bruni' 175. 'cascada' 176. 'cat power' 177. 'castevens' 178. 'céline dion' 179. 'chamillionaire' 180. 'charlie parker' 181. 'chet baker' 182. 'chevelle' 183. 'chicane' 184. 'chico buarque' 185. 'children of bodom' 186. 'chimaira' 187. 'chiodos' 188. 'chris brown' 189. 'chris cornell' 190. 'christina aguilera' 191. 'chromeo' 192. 'circa survive' 193. 'city and colour' 194. 'clap your hands say yeah' 195. 'clint mansell' 196. 'cueso' 197. 'cobra starship' 198. 'cocosie' 199. 'cocteau twins' 200. 'coheed and cambria' 201. 'colbie caillat' 202. 'coldplay' 203. 'cold war kids' 204. 'coma' 205. 'combichrist' 206. 'comeback kid' 207. 'common' 208. 'converge' 209. 'corinne bailey rae' 210. 'counting crows' 211. 'cradle of filth' 212. 'craig david' 213. 'cream' 214. 'creed' 215. 'creedence clearwater revival' 216. 'crystal castles' 217. 'cunninglynguists' 218. 'cursive' 219. 'cut copy' 220. 'cute is what we aim for' 221. 'cypress hill' 222. 'daft punk' 223. 'damian marley' 224. 'damien rice' 225. 'danny elfman' 226. 'dark-throne' 227. 'dark tranquillity' 228. 'dashboard confessionnal' 229. 'dave matthews band' 230. 'david bowie' 231. 'david gray' 232. 'david guetta' 233. 'dead can dance' 234. 'dead kennedys' 235. 'death' 236. 'death cab for cutie' 237. 'death from above 1979' 238. 'death-stars' 239. 'deep purple' 240. 'deerhoof' 241. 'deerhunter' 242. 'def leppard' 243. 'deftones' 244. 'deichkind' 245. 'de la soul' 246. 'delerium' 247. 'depeche mode' 248. 'de-phazz' 249. 'descendents' 250. 'dethklok' 251. 'deus' 252. 'devendra banhart' 253. 'devildriver' 254. 'devo' 255. 'diana krall' 256. 'dido' 257. 'die apokalyptischen reiter' 258. 'die Ärzte' 259. 'die toten hosen' 260. 'digitalism' 261. 'dimmu borgir' 262. 'dinosaur jr.' 263. 'dio' 264. 'dir en grey' 265. 'dire straits' 266. 'dirty pretty things' 267. 'disturbed' 268. 'dizzee rascal' 269. 'django reinhardt' 270. 'dj krush' 271. 'dj shadow' 272. 'dmx' 273. 'dope' 274. 'doves' 275. 'down' 276. 'dragonforce' 277. 'dr. dre' 278. 'dream theater' 279. 'dredg' 280. 'dropkick murphys' 281. 'drowning pool' 282. 'duffy' 283. 'duran duran' 284. 'eagles' 285. 'eagles of death metal' 286. 'echo & the bunnymen' 287. 'eddie vedder' 288. 'edguy' 289. 'Édith piaf' 290. 'editors' 291. 'eels' 292. 'einstürzende neubauten' 293. 'elbow' 294. 'electric light orchestra' 295. 'elec-

tric six' 296. 'ella fitzgerald' 297. 'elliott smith' 298. 'elton john' 299. 'eluveitie' 300. 'elvis costello' 301. 'elvis presley' 302. 'emery' 303. 'emiliana torrini' 304. 'emilie autumn' 305. 'emilie simon' 306. 'eminem' 307. 'enigma' 308. 'ennio morricone' 309. 'enrique iglesias' 310. 'ensiferum' 311. 'enter shikari' 312. 'enya' 313. 'epica' 314. 'equilibrium' 315. 'era' 316. 'eric clapton' 317. 'erykah badu' 318. 'escape the fate' 319. 'evanescence' 320. 'explosions in the sky' 321. 'faithless' 322. 'faith no more' 323. 'fall out boy' 324. 'farin urlaub' 325. 'fatboy slim' 326. 'fear factory' 327. 'feeder' 328. 'feist' 329. 'fergie' 330. 'ferry corsten' 331. 'final fantasy' 332. 'finch' 333. 'finntroll' 334. 'fiona apple' 335. 'fischerspooner' 336. 'fleet foxes' 337. 'fleetwood mac' 338. 'flight of the conchords' 339. 'flogging molly' 340. 'flo rida' 341. 'flying lotus' 342. 'flyleaf' 343. 'foals' 344. 'foo fighters' 345. 'fort minor' 346. 'four tet' 347. 'frank sinatra' 348. 'frank zappa' 349. 'franz ferdinand' 350. 'frédéric chopin' 351. 'from autumn to ashes' 352. 'from first to last' 353. 'frou frou' 354. 'fugazi' 355. 'funeral for a friend' 356. 'gamma ray' 357. 'gang starr' 358. 'garbage' 359. 'gavin degraw' 360. 'genesis' 361. 'gentleman' 362. 'george michael' 363. 'ghostface' 364. 'girls aloud' 365. 'girl talk' 366. 'gnarls barkley' 367. 'god is an astronaut' 368. 'godsmack' 369. 'godspeed you! black emperor' 370. 'gogol bordello' 371. 'gojira' 372. 'goldfinger' 373. 'goldfrapp' 374. 'good charlotte' 375. 'goo goo dolls' 376. 'gorillaz' 377. 'gotan project' 378. 'grateful dead' 379. 'green day' 380. 'grizzly bear' 381. 'groove armada' 382. 'groove coverage' 383. 'guano apes' 384. 'guided by voices' 385. 'guns n roses' 386. 'gwen stefani' 387. 'gym class heroes' 388. 'haggard' 389. 'håkan hellström' 390. 'hammerfall' 391. 'hans zimmer' 392. 'happy sad' 393. 'hard-f' 394. 'hatebreed' 395. 'heaven shall burn' 396. 'hello goodbye' 397. 'halloween' 398. 'herbie hancock' 399. 'hercules and love affair' 400. 'hey' 401. 'high contrast' 402. 'hilary duff' 403. 'him' 404. 'hoobastank' 405. 'hooverphonic' 406. 'hot chip' 407. 'hot hot heat' 408. 'howard shore' 409. 'hypocrisy' 410. 'iamx' 411. 'ice cube' 412. 'iced earth' 413. 'iggy pop' 414. 'ignite' 415. 'ill niño' 416. 'immortal' 417. 'immortal technique' 418. 'imogen heap' 419. 'incubus' 420. 'in extremo' 421. 'infected mushroom' 422. 'in flames' 423. 'interpol' 424. 'inxs' 425. 'iron maiden' 426. 'iron & wine' 427. 'isis' 428. 'jack johnson' 429. 'james blunt' 430. 'james brown' 431. 'james morrison' 432. 'jannie cullum' 433. 'janniroquai' 434. 'janet jackson' 435. 'janis joplin' 436. 'jason mraz' 437. 'jay-z' 438. 'jazzanova' 439. 'j dilla' 440. 'jedi mind tricks' 441. 'jeff buckley' 442. 'jefferson airplane' 443. 'jem' 444. 'jennifer lopez' 445. 'jens lekman' 446. 'jet' 447. 'jethro tull' 448. 'jimi hendrix' 449. 'jimmy eat world' 450. 'joanna newsom' 451. 'joe satriani' 452. 'johann sebastian bach' 453. 'john coltrane' 454. 'john frusciante' 455. 'john legend' 456. 'john lennon' 457. 'john mayer' 458. 'johnny cash' 459. 'john williams' 460. 'jonas brothers' 461. 'joni mitchell' 462. 'jordin sparks' 463. 'josé gonzález' 464. 'joshua radin' 465. 'joss stone' 466. 'journey' 467. 'joy division' 468. 'judas priest' 469. 'junior boys' 470. 'jurassic 5' 471. 'justice' 472. 'justin timberlake' 473. 'kaiser chiefs' 474. 'kamelot' 475. 'kanye west' 476. 'kasabian' 477. 'katatonia' 478. 'kate bush' 479. 'kate nash' 480. 'katie melua' 481. 'katy perry' 482. 'keane' 483. 'kelly clarkson' 484. 'kent' 485. 'killswitch engage' 486. 'kimya dawson' 487. 'king crimson' 488. 'kings of convenience' 489. 'kings of leon' 490. 'kiss' 491. 'klaxons' 492. 'kmfdm' 493. 'koop' 494. 'korpiklaani' 495. 'kosheen' 496. 'kon' 497. 'kraftwerk' 498. 'kreator' 499. 'kt tunstall' 500. 'kult' 501. 'kylie minogue' 502. 'kyuss' 503. 'lacrimosa' 504. 'lacuna coil' 505. 'lady gaga' 506. 'ladytron' 507. 'lagwagon' 508. 'lamb' 509. 'lamb of god' 510. 'late of the pier' 511. 'lcd soundsystem' 512. 'led zeppelin' 513. 'lenny kravitz' 514. 'leona lewis' 515. 'leonard cohen' 516. 'less than jake' 517. 'le tigre' 518. 'lifehouse' 519. 'lil wayne' 520. 'lily allen' 521. 'limp bizkit' 522. 'linkin park' 523. 'live' 524. 'lordi' 525. 'loreena mckennitt' 526. 'los hermanos' 527. 'lostprophets' 528. 'louis armstrong' 529. 'lou reed' 530. 'low' 531. 'ludacris' 532. 'ludwig van beethoven' 533. 'lupe fiasco' 534. 'lykke li' 535. 'lynnyrd skynyrd' 536. 'm83' 537. 'machine head' 538. 'madlib'

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539. 'madness' 540. 'madonna' 541. 'madvillain' 542. 'mae' 543. 'mando diao' 544. 'manic street preachers' 545. 'manowar' 546. 'manu chao' 547. 'mariah carey' 548. 'maria mena' 549. 'marillion' 550. 'marilyn manson' 551. 'mark ronson' 552. 'maroon 5' 553. 'marvin gaye' 554. 'mary j. blige' 555. 'massive attack' 556. 'mastodon' 557. 'matchbox twenty' 558. 'matisyahu' 559. 'maximo park' 560. 'max richter' 561. 'me first and the gimme gimmes' 562. 'megadeth' 563. 'melvins' 564. 'meshuggah' 565. 'metallica' 566. 'metric' 567. 'metro station' 568. 'mew' 569. 'mf doom' 570. 'mgmt' 571. 'm.i.a.' 572. 'michael bublé' 573. 'michael jackson' 574. 'mika' 575. 'mike oldfield' 576. 'miles davis' 577. 'miley cyrus' 578. 'millencolin' 579. 'mindless self indulgence' 580. 'ministry' 581. 'minor threat' 582. 'minus the bear' 583. 'mirah' 584. 'misfits' 585. 'missy elliott' 586. 'mobb deep' 587. 'moby' 588. 'modest mouse' 589. 'mogwai' 590. 'moloko' 591. 'mono' 592. 'moonspell' 593. 'morbid angel' 594. 'morceeba' 595. 'morphine' 596. 'morrisey' 597. 'mos def' 598. 'motion city sound-track' 599. 'mötley crüe' 600. 'motörhead' 601. 'mr. scruff' 602. 'mudvayne' 603. 'múm' 604. 'muse' 605. 'm. ward' 606. 'my bloody valentine' 607. 'my chemical romance' 608. 'my dying bride' 609. 'mylo' 610. 'my morning jacket' 611. 'myslovitz' 612. 'nada surf' 613. 'napalm death' 614. 'nas' 615. 'natasha bedingfield' 616. 'neil young' 617. 'neko case' 618. 'nelly' 619. 'nelly furtado' 620. 'n*e*r*d' 621. 'neutral milk hotel' 622. 'new found glory' 623. 'new order' 624. 'ne-yo' 625. 'nick cave and the bad seeds' 626. 'nick drake' 627. 'nickelback' 628. 'nightmares on wax' 629. 'nightwish' 630. 'nile' 631. 'nina simone' 632. 'nine inch nails' 633. 'nirvana' 634. 'no doubt' 635. 'nirvana' 636. 'norah jones' 637. 'northern' 638. 'notorious b.i.g.' 639. 'nouvelle vague' 640. 'oasis' 641. 'of montreal' 642. 'ok go' 643. 'okkervil river' 644. 'onerepublic' 645. 'oomph!' 646. 'opeth' 647. 'orbital' 648. 'o.s.t.r.' 649. 'otis redding' 650. 'outkast' 651. 'ozzy osbourne' 652. 'pain' 653. 'pain of salvation' 654. 'panic at the disco' 655. 'panco' 656. 'pantera' 657. 'paolo nutini' 658. 'papa roach' 659. 'paradise lost' 660. 'paramore' 661. 'parkway drive' 662. 'parov stelar' 663. 'patrick wolf' 664. 'paul mccartney' 665. 'paul oakenfold' 666. 'paul simon' 667. 'paul van dyk' 668. 'pavement' 669. 'peaches' 670. 'pearl jam' 671. 'pendulum' 672. 'pennywise' 673. 'peter bjorn and john' 674. 'peter dinklage' 675. 'peter dinklage' 676. 'pet shop boys' 677. 'phil collins' 678. 'philip glass' 679. 'phoenix' 680. 'pidama porno' 681. 'pinback' 682. 'pink' 683. 'pink floyd' 684. 'pink martini' 685. 'pixies' 686. 'pj harvey' 687. 'placebo' 688. 'plaid' 689. 'plain white ts' 690. 'p.o.d.' 691. 'poets of the fall' 692. 'porcupine tree' 693. 'portishead' 694. 'prefuse 73' 695. 'primal scream' 696. 'primus' 697. 'prince' 698. 'public enemy' 699. 'pulp' 700. 'queen' 701. 'queens of the stone age' 702. 'queensrÿche' 703. 'radiohead' 704. 'rage against the machine' 705. 'rainbow' 706. 'rammstein' 707. 'ramones' 708. 'rancid' 709. 'ratatat' 710. 'ray charles' 711. 'ray lamontagne' 712. 'razorlight' 713. 'red hot chili peppers' 714. 'red.jumpsuit.apparatus' 715. 'reel big fish' 716. 'refused' 717. 'regina spek-tor' 718. 'relient k' 719. 'r.e.m.' 720. 'rhapsody of fire' 721. 'richard cheese' 722. 'rihanna' 723. 'rilo kiley' 724. 'rise against' 725. 'riverside' 726. 'rjd2' 727. 'robbie williams' 728. 'robyn' 729. 'rob zombie' 730. 'róisín murphy' 731. 'roots manuva' 732. 'roxette' 733. 'röyksopp' 734. 'rufus wainwright' 735. 'rush' 736. 'ryan adams' 737. 'sabaton' 738. 'sade' 739. 'sage fran-cis' 740. 'samael' 741. 'santana' 742. 'santogold' 743. 'saosin' 744. 'sara bareilles' 745. 'sarah mclachlan' 746. 'satyricon' 747. 'saves the day' 748. 'say anything' 749. 'scar symmetry' 750. 'schandmaul' 751. 'scissor sisters' 752. 'scooter' 753. 'scorpions' 754. 'seal' 755. 'sean paul' 756. 'seeed' 757. 'seether' 758. 'senses fail' 759. 'sentenced' 760. 'september' 761. 'sepul-tura' 762. 'serge gainsbourg' 763. 'serj tankian' 764. 'sex pistols' 765. 'shakira' 766. 'sheryl crow' 767. 'she wants revenge' 768. 'shiny toy guns' 769. 'shout out louds' 770. 'shpon-gle' 771. 'sia' 772. 'sigur rós' 773. 'silverchair' 774. 'silverstein' 775. 'simian mobile disco' 776. 'simon & garfunkel' 777. 'simple plan' 778. 'siouxsie and the banshees' 779. 'sirenia'

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780. 'ska-p' 781. 'skid row' 782. 'skillet' 783. 'skinny puppy' 784. 'slayer' 785. 'slipknot' 786. 'slowdive' 787. 'sneaker pimps' 788. 'snoop dogg' 789. 'snow patrol' 790. 'social distortion' 791. 'sodom' 792. 'soilwork' 793. 'something corporate' 794. 'sonata arctica' 795. 'sonic syndicate' 796. 'sonic youth' 797. 'soulfly' 798. 'soundgarden' 799. 'soundtrack' 800. 'spice girls' 801. 'spoon' 802. 'squarepusher' 803. 'staind' 804. 'stars' 805. 'static-x' 806. 'steely dan' 807. 'stereolab' 808. 'stereophonics' 809. 'stevie wonder' 810. 'st. germain' 811. 'sting' 812. 'stone sour' 813. 'stone temple pilots' 814. 'story of the year' 815. 'strapping young lad' 816. 'stratovarius' 817. 'streetlight manifesto' 818. 'sublime' 819. 'subway to sally' 820. 'sufjan stevens' 821. 'sugababes' 822. 'sugarcult' 823. 'sum 41' 824. 'supergrass' 825. 'supertramp' 826. 'switchfoot' 827. 'symphony x' 828. 'system of a down' 829. 'taking back sunday' 830. 'talib kweli' 831. 'talking heads' 832. 'tarja turunen' 833. 't.a.t.u.' 834. 'taylor swift' 835. 'tegan and sara' 836. 'télépopmusik' 837. 'tenacious d' 838. 'testament' 839. 'the 69 eyes' 840. 'the academy is...' 841. 'the album leaf' 842. 'the all-american rejects' 843. 'the arcade fire' 844. 'the ataris' 845. 'theatre of tragedy' 846. 'the beach boys' 847. 'the beatles' 848. 'the birthday massacre' 849. 'the black dahlia murder' 850. 'the black keys' 851. 'the blood brothers' 852. 'the books' 853. 'the bouncing souls' 854. 'the bravery' 855. 'the breeders' 856. 'the brian jonestown massacre' 857. 'the byrds' 858. 'the cardigans' 859. 'the chemical brothers' 860. 'the cinematic orchestra' 861. 'the clash' 862. 'the corrs' 863. 'the cranberries' 864. 'the cribs' 865. 'the crystal method' 866. 'the cure' 867. 'the dandy warhols' 868. 'the decemberists' 869. 'the dillinger escape plan' 870. 'the distillers' 871. 'the doors' 872. 'the Dresden dolls' 873. 'the faint' 874. 'the fall' 875. 'the fall of troy' 876. 'the flaming lips' 877. 'the flashbulb' 878. 'the fratellis' 879. 'the fray' 880. 'the future sound of london' 881. 'the game' 882. 'the gathering' 883. 'the get up kids' 884. 'the gossip' 885. 'the go! team' 886. 'the haunted' 887. 'the hellacopters' 888. 'the herbolser' 889. 'the hives' 890. 'the hush sound' 891. 'the jam' 892. 'the jesus and mary chain' 893. 'the jimi hendrix experience' 894. 'the killers' 895. 'the kills' 896. 'the kinks' 897. 'the knife' 898. 'the kooks' 899. 'the last shadow puppets' 900. 'the libertines' 901. 'the magnetic fields' 902. 'the mars volta' 903. 'the mountain goats' 904. 'the national' 905. 'the new pornographers' 906. 'the notwist' 907. 'the offspring' 908. 'the pigeon detectives' 909. 'the pipettes' 910. 'the pogues' 911. 'the police' 912. 'the postal service' 913. 'the presets' 914. 'the prodigy' 915. 'the pussycat dolls' 916. 'the raconteurs' 917. 'the radio dept.' 918. 'the rapture' 919. 'the rasmus' 920. 'the raveonettes' 921. 'therion' 922. 'the rolling stones' 923. 'the roots' 924. 'the shins' 925. 'the sisters of mercy' 926. 'the smashing pumpkins' 927. 'the smiths' 928. 'the sounds' 929. 'the specials' 930. 'the stone roses' 931. 'the streets' 932. 'the strokes' 933. 'the subways' 934. 'the ting tings' 935. 'the used' 936. 'the velvet underground' 937. 'the veronicas' 938. 'the verve' 939. 'the vines' 940. 'the weakerthans' 941. 'the whitest boy alive' 942. 'the white stripes' 943. 'the who' 944. 'the wombats' 945. 'they might be giants' 946. 'the zombies' 947. 'thievery corporation' 948. 'thin lizzy' 949. 'third eye blind' 950. 'thomas newman' 951. 'thom yorke' 952. 'three days grace' 953. 'thrice' 954. 'thursday' 955. 't.i.' 956. 'tiamat' 957. 'tiësto' 958. 'timbaland' 959. 'tokyo police club' 960. 'tom petty and the heartbreakers' 961. 'tom waits' 962. 'tool' 963. 'tori amos' 964. 'tortoise' 965. 'tosca' 966. 'toto' 967. 'tracy chapman' 968. 'travis' 969. 'trentemøller' 970. 't. rex' 971. 'tricky' 972. 'tristania' 973. 'trivium' 974. 'turbonegro' 975. 'turusas' 976. 'tv on the radio' 977. 'type o negative' 978. 'u2' 979. 'ulver' 980. 'underoath' 981. 'underworld' 982. 'unkle' 983. '[unknown]' 984. 'usher' 985. 'vader' 986. 'vampire weekend' 987. 'vangelis' 988. 'van halen' 989. 'van morrison' 990. 'various artists' 991. 'velvet revolver' 992. 'venetian snares' 993. 'vnx nation' 994. 'volbeat' 995. 'weezer' 996. 'wilco' 997. 'within temptation' 998. 'wolfgang amadeus mozart' 999. 'wu-tang clan' 1000. 'yann tiersen' 1001. 'yeah yeah yeahs' 1002. 'yellowcard' 1003. 'yo la tengo' 1004. 'zero 7'

\$1519 1. linkin park 2. jem 3. foo fighters 4. kt tunstall 5. dido 6. avril lavigne 7. sarah mclachlan 8. natasha bedingfield 9. amy macdonald 10. katie melua 11. maria mena 12. the corrs 13. sheryl crow 14. colbie caillat 15. nelly furtado 16. danny elfman 17. aimee mann 18. shakira 19. paolo nutini

Levels: 1. '2pac' 2. '30 seconds to mars' 3. '311' 4. '36 crazyfists' 5. '3 doors down' 6. '44' 7. '50 cent' 8. '65daysofstatic' 9. 'abba' 10. 'above & beyond' 11. 'ac/dc' 12. 'adam green' 13. 'a day to remember' 14. 'adele' 15. 'adema' 16. 'aerosmith' 17. 'aesop rock' 18. 'afi' 19. 'a fine frenzy' 20. 'after forever' 21. 'against me!' 22. 'agalloch' 23. 'a-ha' 24. 'aimee mann' 25. 'air' 26. 'akira yamaoka' 27. 'akon' 28. 'akurat' 29. 'alanis morissette' 30. 'alesana' 31. 'alexison-fire' 32. 'al green' 33. 'alice cooper' 34. 'alice in chains' 35. 'alicia keys' 36. 'alkaline trio' 37. 'all shall perish' 38. 'all that remains' 39. 'all time low' 40. 'alter bridge' 41. 'amon amarth' 42. 'amon tobin' 43. 'amorphis' 44. 'amy macdonald' 45. 'amy winehouse' 46. 'anathema' 47. 'anberlin' 48. 'andrew bird' 49. 'andrew lloyd webber' 50. '...and you will know us by the trail of dead' 51. 'angels & airwaves' 52. 'angra' 53. 'ani difranco' 54. 'animal collective' 55. 'anna ternheim' 56. 'anthrax' 57. 'anti-flag' 58. 'antonio vivaldi' 59. 'antony and the johnsons' 60. 'a perfect circle' 61. 'aphex twin' 62. 'apocalyptica' 63. 'apoptygma berzerk' 64. 'apparat' 65. 'arcade fire' 66. 'arch enemy' 67. 'architecture in helsinki' 68. 'archive' 69. 'arctic monkeys' 70. 'aretha franklin' 71. 'armin van buuren' 72. 'ashlee simpson' 73. 'asian dub foundation' 74. 'as i lay dying' 75. 'atb' 76. 'atmosphere' 77. 'atrocity' 78. 'a tribe called quest' 79. 'at the drive-in' 80. 'at the gates' 81. 'audioslave' 82. 'a1600re' 83. 'avantasia' 84. 'avenged sevenfold' 85. 'avril lavigne' 86. 'ayreon' 87. 'babyshambles' 88. 'backstreet boys' 89. 'bad brains' 90. 'badly drawn boy' 91. 'bad religion' 92. 'band of horses' 93. 'bare-naked ladies' 94. 'basement jaxx' 95. 'basshunter' 96. 'bat for lashes' 97. 'bathory' 98. 'battles' 99. 'bauhaus' 100. 'beastie boys' 101. 'beastieboys' 102. 'beck' 103. 'bee gees' 104. 'behemoth' 105. 'beirut' 106. 'belle and sebastian' 107. 'ben folds' 108. 'ben folds five' 109. 'ben harper' 110. 'benny benassi' 111. 'beyoncé' 112. 'biffy clyro' 113. 'billie holiday' 114. 'billy joel' 115. 'billy talent' 116. 'björk' 117. 'blackeyed peas' 118. 'blackfield' 119. 'black flag' 120. 'black label society' 121. 'black rebel motorcycle club' 122. 'black sabbath' 123. 'blank & jones' 124. 'blind guardian' 125. 'blink-182' 126. 'bloc party' 127. 'blonde redhead' 128. 'blondie' 129. 'bloodbath' 130. 'bloodhound gang' 131. 'blur' 132. 'boards of canada' 133. 'bob dylan' 134. 'bob marley' 135. 'bob marley & the wailers' 136. 'böhse onkelz' 137. 'bon iver' 138. 'bon jovi' 139. 'bonnie prince billy' 140. 'bonobo' 141. 'booka shade' 142. 'bowling for soup' 143. 'boys like girls' 144. 'boys noize' 145. 'brand new' 146. 'breaking benjamin' 147. 'brian eno' 148. 'bright eyes' 149. 'bring me the horizon' 150. 'britney spears' 151. 'broken social scene' 152. 'bruce springsteen' 153. 'bryan adams' 154. 'buckethead' 155. 'buena vista social club' 156. 'built to spill' 157. 'bullet for my valentine' 158. 'burial' 159. 'burzum' 160. 'bush' 161. 'busta rhymes' 162. 'buzzcocks' 163. 'caetano veloso' 164. 'cake' 165. 'calexico' 166. 'caliban' 167. 'calvin harris' 168. 'camel' 169. 'camera obscura' 170. 'cannibal corpse' 171. 'cansei de ser sexy' 172. 'captain beefheart & his magic band' 173. 'carcass' 174. 'carla bruni' 175. 'cascada' 176. 'cat power' 177. 'cat stevens' 178. 'céline dion' 179. 'chamillionaire' 180. 'charlie parker' 181. 'chet baker' 182. 'chevelle' 183. 'chicane' 184. 'chico buarque' 185. 'children of bodom' 186. 'chimaira' 187. 'chiodos' 188. 'chris brown' 189. 'chris cornell' 190. 'christina aguilera' 191. 'chromeo' 192. 'circa survive' 193. 'city and colour' 194. 'clap your hands say yeah' 195. 'clint mansell' 196. 'clueso' 197. 'cobra starship' 198. 'cocososie' 199. 'cocteau twins' 200. 'coheed and cambria' 201. 'colbie caillat' 202. 'coldplay' 203. 'cold war kids' 204. 'coma' 205. 'combichrist' 206. 'comeback kid' 207. 'common' 208. 'converge' 209. 'corinne bailey rae' 210. 'counting crows' 211. 'cradle of filth' 212. 'craig david'

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 780. 'ska-p' 781. 'skid row' 782. 'skillet' 783. 'skinny puppy' 784. 'slayer' 785. 'slipknot'
 786. 'slowdive' 787. 'sneaker pimps' 788. 'snoop dogg' 789. 'snow patrol' 790. 'social distor-
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 812. 'stone sour' 813. 'stone temple pilots' 814. 'story of the year' 815. 'strapping young lad'
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 878. 'the fratellis' 879. 'the fray' 880. 'the future sound of london' 881. 'the game' 882. 'the
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 887. 'the hellacopters' 888. 'the herbaliser' 889. 'the hives' 890. 'the hush sound' 891. 'the jam'
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\$'2335' 1. kent 2. onerepublic 3. nada surf

Levels: 1. '2pac' 2. '30 seconds to mars' 3. '311' 4. '3p crazy fists' 5. '3 doors down' 6. '44' 7. '50 cent' 8. '65daysstatic' 9. 'abba' 10. 'above & beyond' 11. 'ac/dc' 12. 'adam green' 13. 'a day to remember' 14. 'adele' 15. 'adema' 16. 'aerosmith' 17. 'aesop rock' 18. 'afi' 19. 'a fine frenzy' 20. 'after forever' 21. 'against me!' 22. 'agalloch' 23. 'a-ha' 24. 'aimee mann' 25. 'air' 26. 'akira yamacka' 27. 'alton' 28. 'akurat' 29. 'alanis morissette' 30. 'alesana' 31. 'alexison-fire' 32. 'al green' 33. 'alice cooper' 34. 'alice in chains' 35. 'alicia keys' 36. 'alkaline trio' 37. 'all shall perish' 38. 'all that remains' 39. 'all time low' 40. 'alter bridge' 41. 'amon amarth' 42. 'amon tobin' 43. 'amorphis' 44. 'amy macdonald' 45. 'amy winehouse' 46. 'anathema' 47. 'anberlin' 48. 'andrew bird' 49. 'andrew lloyd webber' 50. '...and you will know us by the trail of dead' 51. 'angels & airwaves' 52. 'angra' 53. 'ani difranco' 54. 'animal collective' 55. 'anna ternheim' 56. 'anthrax' 57. 'anti-flag' 58. 'antonio vivaldi' 59. 'antony and the johnsons' 60. 'a perfect circle' 61. 'aphex twin' 62. 'apocalyptica' 63. 'apoptygma berzerk' 64. 'apparat' 65. 'arcade fire' 66. 'arch enemy' 67. 'architecture in helsinki' 68. 'archive' 69. 'arctic monkeys' 70. 'aretha franklin' 71. 'armin van buuren' 72. 'ashlee simpson' 73. 'asian dub foundation' 74. 'as i lay dying' 75. 'atb' 76. 'atmosphere' 77. 'atreyu' 78. 'a tribe called quest' 79. 'at the drive-in' 80. 'at the gates' 81. 'audioslave' 82. 'autechre' 83. 'avantasia' 84. 'avenged sevenfold' 85. 'avril lavigne' 86. 'ayreon' 87. 'babyshambles' 88. 'backstreet boys' 89. 'bad brains' 90. 'badly drawn boy' 91. 'bad religion' 92. 'band of horses' 93. 'bare-naked ladies' 94. 'basement jaxx' 95. 'basshunter' 96. 'bat for lashes' 97. 'bathory' 98. 'battles' 99. 'bauhaus' 100. 'beastie boys' 101. 'beatsteaks' 102. 'beck' 103. 'bee gees' 104. 'behemoth' 105. 'beirut' 106. 'belle and sebastian' 107. 'ben folds' 108. 'ben folds five' 109. 'ben harper' 110. 'benny benassi' 111. 'beyoncé' 112. 'biffy clyro' 113. 'billie holiday' 114. 'billy joel' 115. 'billy talent' 116. 'björk' 117. 'black eyed peas' 118. 'blackfield' 119. 'black flag' 120. 'black label society' 121. 'black rebel motorcycle club' 122. 'black sabbath' 123. 'blank & jones' 124. 'blind guardian' 125. 'blink-182' 126. 'bloc party' 127. 'blonde redhead' 128. 'blondie' 129. 'bloodbath' 130. 'bloodhound gang' 131. 'blur' 132. 'boards of canada' 133. 'bob dylan' 134. 'bob marley' 135. 'bob marley & the wailers' 136. 'böhse onkelz' 137. 'bon iver' 138. 'bon jovi' 139. 'bonnie prince billy' 140. 'bonobo' 141. 'booka shade' 142. 'bowling for soup' 143. 'boys like girls' 144. 'boys noize' 145. 'brand new' 146. 'breaking benjamin'

147. 'brian eno' 148. 'bright eyes' 149. 'bring me the horizon' 150. 'britney spears' 151. 'broken social scene' 152. 'bruce springsteen' 153. 'bryan adams' 154. 'buckethead' 155. 'buena vista social club' 156. 'built to spill' 157. 'bullet for my valentine' 158. 'burial' 159. 'burzum' 160. 'bush' 161. 'busta rhymes' 162. 'buzzcocks' 163. 'caetano veloso' 164. 'cake' 165. 'calexico' 166. 'caliban' 167. 'calvin harris' 168. 'camel' 169. 'camera obscura' 170. 'cannibal corpse' 171. 'cansei de ser sexy' 172. 'captain beefheart & his magic band' 173. 'carcass' 174. 'carla bruni' 175. 'cascada' 176. 'cat power' 177. 'cat stevens' 178. 'céline dion' 179. 'chamillionaire' 180. 'charlie parker' 181. 'chet baker' 182. 'chevelle' 183. 'chicane' 184. 'chico buarque' 185. 'children of bodom' 186. 'chimaira' 187. 'chiodos' 188. 'chris brown' 189. 'chris cornell' 190. 'christina aguilera' 191. 'chromeo' 192. 'circa survive' 193. 'city and colour' 194. 'clap your hands say yeah' 195. 'clint mansell' 196. 'clueso' 197. 'cobra starship' 198. 'cocososie' 199. 'cocteau twins' 200. 'coheed and cambria' 201. 'colbie caillat' 202. 'coldplay' 203. 'cold war kids' 204. 'coma' 205. 'combichrist' 206. 'comeback kid' 207. 'common' 208. 'converge' 209. 'corinne bailey rae' 210. 'counting crows' 211. 'cradle of filth' 212. 'craig david' 213. 'cream' 214. 'creed' 215. 'creedence clearwater revival' 216. 'crystal castles' 217. 'cunninglynguists' 218. 'cursive' 219. 'cut copy' 220. 'cute is what we aim for' 221. 'cypress hill' 222. 'daft punk' 223. 'damian marley' 224. 'damien rice' 225. 'danny elfman' 226. 'dark-throne' 227. 'dark tranquillity' 228. 'dashboard confessionnal' 229. 'dave matthews band' 230. 'david bowie' 231. 'david gray' 232. 'david guetta' 233. 'dead can dance' 234. 'dead kennedys' 235. 'death' 236. 'death cab for cutie' 237. 'death from above' 238. 'deathstars' 239. 'deep purple' 240. 'deerhoof' 241. 'deerhunter' 242. 'def leppard' 243. 'deftones' 244. 'deichkind' 245. 'de la soul' 246. 'delerium' 247. 'depeche mode' 248. 'de-phazz' 249. 'descendents' 250. 'dethklok' 251. 'deus' 252. 'devendra banhart' 253. 'devildriver' 254. 'devo' 255. 'diana krall' 256. 'dion' 257. 'die apokalyptischen reiter' 258. 'die Ärzte' 259. 'die toten hosen' 260. 'digitalism' 261. 'dimmu borgir' 262. 'dinosaur jr.' 263. 'dio' 264. 'dir en grey' 265. 'dire straits' 266. 'dirty pretty things' 267. 'disturbed' 268. 'dizzee rascal' 269. 'django reinhardt' 270. 'dj krush' 271. 'dj shadow' 272. 'dmx' 273. 'dope' 274. 'doves' 275. 'down' 276. 'dragonforce' 277. 'dr. dre' 278. 'dream theater' 279. 'dredg' 280. 'dropkick murphys' 281. 'drowning pool' 282. 'duffy' 283. 'duran duran' 284. 'eagles' 285. 'eagles of death metal' 286. 'echo & the bunnymen' 287. 'eddie vedder' 288. 'edguy' 289. 'Édith piaf' 290. 'editors' 291. 'eels' 292. 'einstürzende neubauten' 293. 'elbow' 294. 'electric light orchestra' 295. 'electric six' 296. 'ella fitzgerald' 297. 'elliott smith' 298. 'elton john' 299. 'eluveitie' 300. 'elvis costello' 301. 'elvis presley' 302. 'emery' 303. 'emiliana torrini' 304. 'emilie autumn' 305. 'emilie simon' 306. 'eminem' 307. 'enigma' 308. 'ennio morricone' 309. 'enrique iglesias' 310. 'ensiferum' 311. 'enter shikari' 312. 'enya' 313. 'epica' 314. 'equilibrium' 315. 'era' 316. 'eric clapton' 317. 'erykah badu' 318. 'escape the fate' 319. 'evanescence' 320. 'explosions in the sky' 321. 'faithless' 322. 'faith no more' 323. 'fall out boy' 324. 'farin urlaub' 325. 'fatboy slim' 326. 'fear factory' 327. 'feeder' 328. 'feist' 329. 'fergie' 330. 'ferry corsten' 331. 'final fantasy' 332. 'finch' 333. 'finntroll' 334. 'fiona apple' 335. 'fischerspooner' 336. 'fleet foxes' 337. 'fleetwood mac' 338. 'flight of the conchords' 339. 'flogging molly' 340. 'flo rida' 341. 'flying lotus' 342. 'flyleaf' 343. 'foals' 344. 'foo fighters' 345. 'fort minor' 346. 'four tet' 347. 'frank sinatra' 348. 'frank zappa' 349. 'franz ferdinand' 350. 'frédéric chopin' 351. 'from autumn to ashes' 352. 'from first to last' 353. 'frou frou' 354. 'fugazi' 355. 'funeral for a friend' 356. 'gamma ray' 357. 'gang starr' 358. 'garbage' 359. 'gavin degraw' 360. 'genesis' 361. 'gentleman' 362. 'george michael' 363. 'ghostface' 364. 'girls aloud' 365. 'girl talk' 366. 'gnarls barkley' 367. 'god is an astronaut' 368. 'godsmack' 369. 'godspeed you! black emperor' 370. 'gogol bordello' 371. 'gojira' 372. 'goldfinger' 373. 'goldfrapp' 374. 'good charlotte' 375. 'goo goo dolls' 376. 'gorillaz' 377. 'gotan project' 378. 'grateful dead' 379. 'green day' 380. 'grizzly

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539. 'madness' 540. 'madonna' 541. 'madvillain' 542. 'mae' 543. 'mando diao' 544. 'manic street preachers' 545. 'manowar' 546. 'manu chao' 547. 'mariah carey' 548. 'maria mena' 549. 'marillion' 550. 'marilyn manson' 551. 'mark ronson' 552. 'maroon 5' 553. 'marvin gaye' 554. 'mary j. blige' 555. 'massive attack' 556. 'mastodon' 557. 'matchbox twenty' 558. 'matisyahu' 559. 'maximo park' 560. 'max richter' 561. 'me first and the gimme gimmes' 562. 'megadeth' 563. 'melvins' 564. 'meshuggah' 565. 'metallica' 566. 'metric' 567. 'metro station' 568. 'mew' 569. 'mf doom' 570. 'mgmt' 571. 'm.i.a.' 572. 'michael bublé' 573. 'michael jackson' 574. 'mika' 575. 'mike oldfield' 576. 'miles davis' 577. 'miley cyrus' 578. 'millen-colin' 579. 'mindless self indulgence' 580. 'ministry' 581. 'minor threat' 582. 'minus the bear' 583. 'mirah' 584. 'misfits' 585. 'missy elliott' 586. 'mobb deep' 587. 'moby' 588. 'mod-est mouse' 589. 'mogwai' 590. 'moloko' 591. 'mono' 592. 'moonspell' 593. 'morbid angel' 594. 'morceeba' 595. 'morphine' 596. 'morrisey' 597. 'mos def' 598. 'motion city sound-track' 599. 'mötley crüe' 600. 'motörhead' 601. 'mr. scruff' 602. 'mudvayne' 603. 'múm' 604. 'muse' 605. 'm. ward' 606. 'my bloody valentine' 607. 'my chemical romance' 608. 'my dying bride' 609. 'mylo' 610. 'my morning jacket' 611. 'myslovitz' 612. 'nada surf' 613. 'na-palm death' 614. 'nas' 615. 'natasha bedingfield' 616. 'neil young' 617. 'neko case' 618. 'nelly' 619. 'nelly furtado' 620. 'n*e*r*d' 621. 'neutral milk hotel' 622. 'new found glory' 623. 'new order' 624. 'ne-yo' 625. 'nick cave and the bad seeds' 626. 'nick drake' 627. 'nickelback' 628. 'nightmares on wax' 629. 'nightwish' 630. 'nile' 631. 'nina simone' 632. 'nine inch nails' 633. 'nirvana' 634. 'no doubt' 635. 'nirvana' 636. 'norah jones' 637. 'norther' 638. 'noto-rious b.i.g.' 639. 'nouvelle vague' 640. 'oasis' 641. 'of montreal' 642. 'ok go' 643. 'okkervil river' 644. 'onerepublic' 645. 'oomph!' 646. 'opeth' 647. 'orbital' 648. 'o.s.t.r.' 649. 'otis redding' 650. 'outkast' 651. 'ozzy osbourne' 652. 'pain' 653. 'pain of salvation' 654. 'panic at the disco' 655. 'panco' 656. 'pantera' 657. 'paolo nutini' 658. 'papa roach' 659. 'paradise lost' 660. 'paramore' 661. 'parkway drive' 662. 'parov stelar' 663. 'patrick wolf' 664. 'paul mccartney' 665. 'paul oakenfold' 666. 'paul simon' 667. 'paul van dyk' 668. 'pavement' 669. 'peaches' 670. 'pearl jam' 671. 'pendulum' 672. 'pennywise' 673. 'pe-ter bjorn and john' 674. 'peter dinklage' 675. 'peter gabriel' 676. 'pet shop boys' 677. 'phil collins' 678. 'philip glass' 679. 'phoenix' 680. 'pidama porno' 681. 'pinback' 682. 'pink' 683. 'pink floyd' 684. 'pink martini' 685. 'pixies' 686. 'pj harvey' 687. 'placebo' 688. 'plaid' 689. 'plain white ts' 690. 'p.o.d.' 691. 'poets of the fall' 692. 'porcupine tree' 693. 'por-tishead' 694. 'prefuse 73' 695. 'primal scream' 696. 'primus' 697. 'prince' 698. 'public enemy' 699. 'pulp' 700. 'queen' 701. 'queens of the stone age' 702. 'queensrÿche' 703. 'radiohead' 704. 'rage against the machine' 705. 'rainbow' 706. 'rammstein' 707. 'ramones' 708. 'ran-cid' 709. 'ratatat' 710. 'ray charles' 711. 'ray lamontagne' 712. 'razorlight' 713. 'red hot chili peppers' 714. 'red.jumpsuit.apparatus' 715. 'reel big fish' 716. 'refused' 717. 'regina spek-tor' 718. 'relient k' 719. 'r.e.m.' 720. 'rhapsody of fire' 721. 'richard cheese' 722. 'rihanna' 723. 'rilo kiley' 724. 'rise against' 725. 'riverside' 726. 'rjd2' 727. 'robbie williams' 728. 'robyn' 729. 'rob zombie' 730. 'róisín murphy' 731. 'roots manuva' 732. 'roxette' 733. 'röyksopp' 734. 'rufus wainwright' 735. 'rush' 736. 'ryan adams' 737. 'sabaton' 738. 'sade' 739. 'sage fran-cis' 740. 'samael' 741. 'santana' 742. 'santogold' 743. 'saosin' 744. 'sara bareilles' 745. 'sarah mclachlan' 746. 'satyricon' 747. 'saves the day' 748. 'say anything' 749. 'scar symmetry' 750. 'schandmaul' 751. 'scissor sisters' 752. 'scooter' 753. 'scorpions' 754. 'seal' 755. 'sean paul' 756. 'seeed' 757. 'seether' 758. 'senses fail' 759. 'sentenced' 760. 'september' 761. 'sepul-tura' 762. 'serge gainsbourg' 763. 'serj tankian' 764. 'sex pistols' 765. 'shakira' 766. 'sheryl crow' 767. 'she wants revenge' 768. 'shiny toy guns' 769. 'shout out louds' 770. 'shpon-gle' 771. 'sia' 772. 'sigur rós' 773. 'silverchair' 774. 'silverstein' 775. 'simian mobile disco' 776. 'simon & garfunkel' 777. 'simple plan' 778. 'siouxsie and the banshees' 779. 'sirenia'

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780. 'ska-p' 781. 'skid row' 782. 'skillet' 783. 'skinny puppy' 784. 'slayer' 785. 'slipknot' 786. 'slowdive' 787. 'sneaker pimps' 788. 'snoop dogg' 789. 'snow patrol' 790. 'social distortion' 791. 'sodom' 792. 'soilwork' 793. 'something corporate' 794. 'sonata arctica' 795. 'sonic syndicate' 796. 'sonic youth' 797. 'soulfly' 798. 'soundgarden' 799. 'soundtrack' 800. 'spice girls' 801. 'spoon' 802. 'squarepusher' 803. 'staind' 804. 'stars' 805. 'static-x' 806. 'steely dan' 807. 'stereolab' 808. 'stereophonics' 809. 'stevie wonder' 810. 'st. germain' 811. 'sting' 812. 'stone sour' 813. 'stone temple pilots' 814. 'story of the year' 815. 'strapping young lad' 816. 'stratovarius' 817. 'streetlight manifesto' 818. 'sublime' 819. 'subway to sally' 820. 'sufjan stevens' 821. 'sugababes' 822. 'sugarcult' 823. 'sum 41' 824. 'supergrass' 825. 'supertramp' 826. 'switchfoot' 827. 'symphony x' 828. 'system of a down' 829. 'taking back sunday' 830. 'talib kweli' 831. 'talking heads' 832. 'tarja turunen' 833. 't.a.t.u.' 834. 'taylor swift' 835. 'tegan and sara' 836. 'télépopmusik' 837. 'tenacious d' 838. 'testament' 839. 'the 69 eyes' 840. 'the academy is...' 841. 'the album leaf' 842. 'the all-american rejects' 843. 'the arcade fire' 844. 'the ataris' 845. 'theatre of tragedy' 846. 'the beach boys' 847. 'the beatles' 848. 'the birthday massacre' 849. 'the black dahlia murder' 850. 'the black keys' 851. 'the blood brothers' 852. 'the books' 853. 'the bouncing souls' 854. 'the bravery' 855. 'the breeders' 856. 'the brian jonestown massacre' 857. 'the byrds' 858. 'the cardigans' 859. 'the chemical brothers' 860. 'the cinematic orchestra' 861. 'the clash' 862. 'the corrs' 863. 'the cranberries' 864. 'the cribs' 865. 'the crystal method' 866. 'the cure' 867. 'the dandy warhols' 868. 'the decemberists' 869. 'the dillinger escape plan' 870. 'the distillers' 871. 'the doors' 872. 'the Dresden dolls' 873. 'the faint' 874. 'the fall' 875. 'the fall of troy' 876. 'the flaming lips' 877. 'the flashbulb' 878. 'the fratellis' 879. 'the fray' 880. 'the future sound of london' 881. 'the game' 882. 'the gathering' 883. 'the get up kids' 884. 'the gossip' 885. 'the go! team' 886. 'the haunted' 887. 'the hellacopters' 888. 'the herbers' 889. 'the hives' 890. 'the hush sound' 891. 'the jam' 892. 'the jesus and mary chain' 893. 'the jimi hendrix experience' 894. 'the killers' 895. 'the kills' 896. 'the kinks' 897. 'the knife' 898. 'the kooks' 899. 'the last shadow puppets' 900. 'the libertines' 901. 'the magnetic fields' 902. 'the mars volta' 903. 'the mountain goats' 904. 'the national' 905. 'the new pornographers' 906. 'the new power generation' 907. 'the offspring' 908. 'the pigeon detectives' 909. 'the pipettes' 910. 'the pogues' 911. 'the police' 912. 'the postal service' 913. 'the presets' 914. 'the prodigy' 915. 'the pussycat dolls' 916. 'the raconteurs' 917. 'the radio dept.' 918. 'the rapture' 919. 'the rasmus' 920. 'the raveonettes' 921. 'therion' 922. 'the rolling stones' 923. 'the roots' 924. 'the shins' 925. 'the sisters of mercy' 926. 'the smashing pumpkins' 927. 'the smiths' 928. 'the sounds' 929. 'the specials' 930. 'the stone roses' 931. 'the streets' 932. 'the strokes' 933. 'the subways' 934. 'the ting tings' 935. 'the used' 936. 'the velvet underground' 937. 'the veronicas' 938. 'the verve' 939. 'the vines' 940. 'the weakerthans' 941. 'the whitest boy alive' 942. 'the white stripes' 943. 'the who' 944. 'the wombats' 945. 'they might be giants' 946. 'the zombies' 947. 'thievery corporation' 948. 'thin lizzy' 949. 'third eye blind' 950. 'thomas newman' 951. 'thom yorke' 952. 'three days grace' 953. 'thrice' 954. 'thursday' 955. 't.i.' 956. 'tiamat' 957. 'tiësto' 958. 'timbaland' 959. 'tokyo police club' 960. 'tom petty and the heartbreakers' 961. 'tom waits' 962. 'tool' 963. 'tori amos' 964. 'tortoise' 965. 'tosca' 966. 'toto' 967. 'tracy chapman' 968. 'travis' 969. 'trentemøller' 970. 't. rex' 971. 'tricky' 972. 'tristania' 973. 'trivium' 974. 'turbonegro' 975. 'turusas' 976. 'tv on the radio' 977. 'type o negative' 978. 'u2' 979. 'ulver' 980. 'underoath' 981. 'underworld' 982. 'unkle' 983. '[unknown]' 984. 'usher' 985. 'vader' 986. 'vampire weekend' 987. 'vangelis' 988. 'van halen' 989. 'van morrison' 990. 'various artists' 991. 'velvet revolver' 992. 'venetian snares' 993. 'vnx nation' 994. 'volbeat' 995. 'weezer' 996. 'wilco' 997. 'within temptation' 998. 'wolfgang amadeus mozart' 999. 'wu-tang clan' 1000. 'yann tiersen' 1001. 'yeah yeah yeahs' 1002. 'yellowcard' 1003. 'yo la tengo' 1004. 'zero 7'

So playlist is a list of lists, one for each user. Above you see the lists of artists for users 1, 3, 4 and 5. Now there is a problem with this data: for a given user, the same artist may be listed more than once. So we apply the instruction unique to every user's list of artists. This is done with the command lapply:

```
In [114]: playlist<-lapply(playlist, unique)
```

From help: *lapply (x,FUN,...)* returns a list of the same length as x, each element of which is the result of applying FUN to the corresponding element of x.

So in our case, playlist provides a list of artists for each user, and for each of these lists, unique is applied. unique removes duplicates from the list of artists for each user.

Convert this list of list into a transaction object:

```
In [115]: playlist.tr<-as(playlist, "transactions")
          playlist.tr
```

transactions in sparse format with
39 transactions (rows) and
338 items (columns)

Let's look again at the most frequent items, this time specify supp = 0.1

```
In [116]: playlist.apriori <-apriori(playlist.tr,
                                     parameter = list(supp = 0.1,
                                                         conf = 0.8,
                                                         minlen = 2 ))
```

Apriori

Parameter specification:

confidence	minval	smax	arem	aval	originalSupport	maxtime	support	minlen
0.8	0.1	1	none	FALSE	TRUE	5	0.1	2

maxlen target ext
10 rules FALSE

Algorithmic control:

filter	tree	heap	memopt	load	sort	verbose
0.1	TRUE	TRUE	FALSE	TRUE	2	TRUE

Absolute minimum support count: 3

```
set item appearances ...[0 item(s)] done [0.00s].
set transactions ...[338 item(s), 39 transaction(s)] done [0.00s].
sorting and recoding items ... [19 item(s)] done [0.00s].
creating transaction tree ... done [0.00s].
checking subsets of size 1 2 done [0.00s].
writing ... [3 rule(s)] done [0.00s].
creating S4 object ... done [0.00s].
```


Now run the rule mining again, this time with the settings `supp = 0.01` and `conf = 0.5`

```
In [78]: playlist.apriori <-apriori(playlist.tr,
                                     parameter = list(supp = 0.01,
                                                         conf = 0.5,
                                                         minlen = 2 ))
```

Apriori

Parameter specification:

```
confidence minval smax arem aval originalSupport maxtime support minlen
          0.5   0.1   1 none FALSE                TRUE         5   0.01     2
maxlen target  ext
          10  rules FALSE
```

Algorithmic control:

```
filter tree heap memopt load sort verbose
    0.1 TRUE TRUE  FALSE TRUE    2    TRUE
```

Absolute minimum support count: 150

```
set item appearances ...[0 item(s)] done [0.00s].
set transactions ...[1004 item(s), 15000 transaction(s)] done [0.04s].
sorting and recoding items ...[656 item(s)] done [0.01s].
creating transaction tree ... done [0.02s].
checking subsets of size 1 2 3 4 done [0.04s].
writing ... [50 rule(s)] done [0.00s].
creating S4 object ... done [0.01s].
```

As we now have more rules, let's sort them by confidence. You can also look at it by the lift:

```
In [117]: rules_conf <- sort (playlist.apriori, by="confidence", decreasing=TRUE)
```

```
In [118]: inspect(rules_conf)
```

	lhs	rhs	support	confidence	lift	count
[1]	{dido}	=> {linkin park}	0.1025641	1.0	6.500	4
[2]	{oasis}	=> {radiohead}	0.1538462	1.0	4.875	6
[3]	{keane}	=> {radiohead}	0.1025641	0.8	3.900	4

1.0.3 Exercice 3:

There will be couple of questions based on this exercise in the homework quiz.

Select out of lastfm those observations for which the country is China, then repeat the analysis. You may have to change the limits on support etc. I strongly recommend, in the apriori command, specifying support = 0.1. Don't make the limits too generous or you may run out of memory.

```
In [50]: lastfm.df %>%
  select(country=='China')
```

Error in .f(.x[[i]], ...): object 'country' not found
Traceback:

```
1. lastfm.df %>% select(country == "China")
2. withVisible(eval(quote(`_fseq`(`_lhs`)), env, env))
3. eval(quote(`_fseq`(`_lhs`)), env, env)
4. eval(quote(`_fseq`(`_lhs`)), env, env)
5. `_fseq`(`_lhs`)
6. freduce(value, `_function_list`)
7. withVisible(function_list[[k]](value))
8. function_list[[k]](value)
9. select(., country == "China")
10. select.data.frame(., country == "China")
11. tidyselect::vars_select(names(.data), !(!quos(...)))
12. vars_select_eval(.vars, quos)
13. map_if(ind_list, is_helper, eval_tidy)
14. map(.x[sel], .f, ...)
15. .f(.x[[i]], ...)
```

In [45]:

Eclat

parameter specification:

tidLists	support	minlen	maxlen	target	ext
FALSE	0.5	1	3 frequent	itemsets	FALSE

algorithmic control:

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sparse sort verbose
7 -2 TRUE

Absolute minimum support count: 7500

eclat - zero frequent items

In [119]: itemFrequency(playlist.tr)

2pac 0.0256410256410256 65daysofstatic 0.0256410256410256 abba 0.0512820512820513 above
\& beyond 0.0256410256410256 adam green 0.0256410256410256 a day to remember
0.0256410256410256 after forever 0.0256410256410256 agalloch 0.0256410256410256 aimee mann
0.0512820512820513 air 0.0512820512820513 akira yamaoka 0.0256410256410256 akon
0.0256410256410256 al green 0.0256410256410256 alicia keys 0.0256410256410256 amorphis
0.0256410256410256 amy macdonald 0.0256410256410256 amy winehouse 0.0512820512820513
andrew lloyd webber 0.0256410256410256 ...and you will know us by the trail of dead
0.0256410256410256 angels \& airwaves 0.0256410256410256 ani difranco 0.0256410256410256
animal collective 0.0256410256410256 anna ternheim 0.0512820512820513 antony and the
johnsons 0.0512820512820513 apocalyptic 0.0256410256410256 arcade fire 0.0256410256410256
arch enemy 0.0256410256410256 arctic monkeys 0.0512820512820513 armin van buuren
0.0256410256410256 ashlee simpson 0.0256410256410256 atb 0.0512820512820513 a tribe called
quest 0.0256410256410256 audioslave 0.0256410256410256 avril lavigne 0.0769230769230769
ayreon 0.0256410256410256 backstreet boys 0.0769230769230769 band of horses
0.0256410256410256 beck 0.0769230769230769 bee gees 0.0769230769230769 belle and sebastian
0.0769230769230769 benny benassi 0.0256410256410256 billie holiday 0.0512820512820513 billy
joel 0.0512820512820513 björk 0.0512820512820513 black eyed peas 0.0256410256410256
blink-182 0.0256410256410256 bloc party 0.0769230769230769 blonde redhead
0.0256410256410256 blur 0.0512820512820513 bob dylan 0.0512820512820513 bon jovi
0.0256410256410256 bonnie prince billy 0.0512820512820513 booka shade 0.0256410256410256
brian eno 0.0256410256410256 bring me the horizon 0.0256410256410256 britney spears
0.102564102564103 bryan adams 0.0256410256410256 buckethead 0.0256410256410256 bullet for
my valentine 0.0256410256410256 busta rhymes 0.0256410256410256 calexico
0.0256410256410256 calvin harris 0.0256410256410256 camera obscura 0.0256410256410256
captain beefheart \& his magic band 0.0256410256410256 cascada 0.0256410256410256 cat
power 0.0769230769230769 cat stevens 0.0256410256410256 céline dion 0.0256410256410256
chamillionaire 0.0256410256410256 children of bodom 0.0256410256410256 chiodos
0.0256410256410256 chris brown 0.0512820512820513 christina aguilera 0.0256410256410256
chromeo 0.0256410256410256 colbie caillat 0.0256410256410256 coldplay 0.282051282051282
corinne bailey rae 0.0256410256410256 craig david 0.0512820512820513 crystal castles
0.0256410256410256 cypress hill 0.0256410256410256 daft punk 0.0256410256410256 damien rice
0.102564102564103 danny elfman 0.0256410256410256 dark tranquillity 0.0256410256410256
david bowie 0.0769230769230769 david guetta 0.0256410256410256 dead can dance
0.0256410256410256 death cab for cutie 0.128205128205128 death from above 1979
0.0256410256410256 def leppard 0.0256410256410256 de-phazz 0.0256410256410256 devendra
banhart 0.0512820512820513 dido 0.102564102564103 dirty pretty things 0.0256410256410256
dizzee rascal 0.0256410256410256 dj krush 0.0256410256410256 dream theater
0.0769230769230769 duffy 0.0512820512820513 eagles 0.0256410256410256 eagles of death metal

0.0256410256410256 Édith piaf 0.0256410256410256 eels 0.0256410256410256 ella fitzgerald
 0.0256410256410256 elton john 0.0512820512820513 eluveitie 0.0256410256410256 elvis presley
 0.0256410256410256 emery 0.0256410256410256 eminem 0.102564102564103 enigma
 0.0256410256410256 ennio morricone 0.102564102564103 ensiferum 0.0256410256410256 enya
 0.102564102564103 equilibrium 0.0256410256410256 era 0.0256410256410256 escape the fate
 0.0256410256410256 evanescence 0.0512820512820513 explosions in the sky 0.0256410256410256
 fergie 0.0256410256410256 fiona apple 0.0256410256410256 fleet foxes 0.0256410256410256
 fleetwood mac 0.0512820512820513 foo fighters 0.0512820512820513 franz ferdinand
 0.0512820512820513 frou frou 0.0256410256410256 gang starr 0.0256410256410256 girls aloud
 0.0256410256410256 gnarls barkley 0.0256410256410256 god is an astronaut 0.0256410256410256
 goldfrapp 0.0256410256410256 gorillaz 0.0256410256410256 green day 0.0769230769230769 guns
 n roses 0.0256410256410256 haggard 0.0256410256410256 hans zimmer 0.0256410256410256
 hard-fi 0.0256410256410256 hilary duff 0.0256410256410256 him 0.0256410256410256
 hooverphonic 0.0256410256410256 hot hot heat 0.0512820512820513 imogen heap
 0.0256410256410256 in flames 0.0256410256410256 iron maiden 0.0256410256410256 iron \&
 wine 0.0256410256410256 jack johnson 0.0769230769230769 james blunt 0.128205128205128
 janet jackson 0.0256410256410256 jason mraz 0.0769230769230769 jay-z 0.0256410256410256 jeff
 buckley 0.0256410256410256 jem 0.0769230769230769 jet 0.0256410256410256 johann sebastian
 bach 0.0256410256410256 john mayer 0.0256410256410256 johnny cash 0.0256410256410256 john
 williams 0.0256410256410256 jordan sparks 0.0256410256410256 jordin sparks
 0.0256410256410256 jess stone 0.0256410256410256 jurassic 5 0.0256410256410256 justice
 0.0256410256410256 kamelot 0.0256410256410256 kanye west 0.0256410256410256 kasabian
 0.0256410256410256 katatonia 0.0256410256410256 katie melua 0.0256410256410256 keane
 0.128205128205128 kelly carson 0.0512820512820513 kent 0.0512820512820513 kimya dawson
 0.0256410256410256 king crimson 0.0512820512820513 kings of convenience
 0.0512820512820513 korpinklaani 0.0256410256410256 kon 0.0256410256410256 kraftwerk
 0.0256410256410256 kurt cobain 0.0256410256410256 lady gaga 0.0512820512820513 led zeppelin
 0.0256410256410256 leona lewis 0.0769230769230769 less than jake 0.0256410256410256 lil
 wayne 0.0769230769230769 lily allen 0.0256410256410256 linkin park 0.153846153846154 lou
 reed 0.0256410256410256 low 0.0256410256410256 ludwig van beethoven 0.0256410256410256
 madonna 0.0256410256410256 mando diao 0.0256410256410256 mariah carey 0.153846153846154
 maria mena 0.0256410256410256 marilyn manson 0.0256410256410256 maroon 5
 0.128205128205128 marvin gaye 0.0256410256410256 mary j. blige 0.0256410256410256
 megadeth 0.0256410256410256 metallica 0.0512820512820513 mgmt 0.0512820512820513 michael
 jackson 0.0256410256410256 mika 0.0512820512820513 mike oldfield 0.0256410256410256 mobb
 deep 0.0256410256410256 modest mouse 0.0256410256410256 mogwai 0.0256410256410256 mono
 0.0512820512820513 mr. scruff 0.0256410256410256 muse 0.0769230769230769 my chemical
 romance 0.0256410256410256 mylo 0.0256410256410256 nada surf 0.0769230769230769 natasha
 bedingfield 0.0769230769230769 nelly furtado 0.102564102564103 n*e*r*d 0.0256410256410256
 neutral milk hotel 0.0256410256410256 new found glory 0.0256410256410256 new order
 0.0256410256410256 ne-yo 0.0512820512820513 nick cave and the bad seeds 0.0256410256410256
 nick drake 0.128205128205128 nickelback 0.0512820512820513 nightwish 0.0512820512820513
 nina simone 0.0256410256410256 nine inch nails 0.0256410256410256 nirvana
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 paolo nutini 0.0512820512820513 patrick wolf 0.0256410256410256 paul mccartney

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 enemy 0.0256410256410256 pulp 0.0512820512820513 queen 0.0256410256410256 radiohead
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 regina spektor 0.0256410256410256 rhapsody of fire 0.0256410256410256 rihanna
 0.0512820512820513 robbie williams 0.0256410256410256 robyn 0.0256410256410256 roxette
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 adams 0.0256410256410256 saosin 0.0256410256410256 sara bareilles 0.0256410256410256 sarah
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 third eye blind 0.0256410256410256 thomas newman 0.0256410256410256 three days grace
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 0.0512820512820513 vangelis 0.0256410256410256 various artists 0.0256410256410256 weezer
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 yeah yeah yeahs 0.0256410256410256