Principle Component Aanalysis Response

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Data

The data you will be using comes from the Assistments online intelligent tutoring system (https://www.assistments.org/). It describes students working through online math problems. Each student has the following data associated with them:

id

corrplot (COR,

order = "AOE",

- prior_prob_count: How many problems a student has answered in the system prior to this session
- prior_percent_correct: The percentage of problems a student has answered correctly prior to this session
- problems_attempted: The number of problems the student has attempted in the current session
- mean_correct: The average number of correct answers a student made on their first attempt at problems in the current session
- mean_hint: The average number of hints a student asked for in the current session
- mean_attempt: The average number of attempts a student took to answer a problem in the current session
- mean_confidence: The average confidence each student has in their ability to answer the problems in the current session

Start by uploading the data

```
#Probably going to need this
library(tidyverse)

#Read in the data
#We won't need the id variable, so remove that.
D1 <- read_csv("Assistments-confidence.csv") %>% select(-id)
```

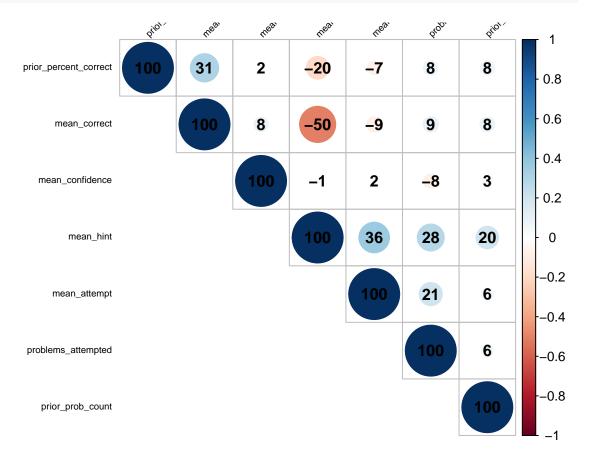
Create a correlation matrix of the relationships between the variables, including correlation coefficients for each pair of variables/features.

```
#You can install the corrplot package to plot some pretty correlation matrices (sometimes called correl library(corrplot)

## corrplot 0.84 loaded

#Generate pairwise correlations
COR <- cor(D1)</pre>
```

```
method = "circle",
tl.pos = "lt",
type = "upper",
tl.col = "black",
tl.cex = 0.6,
tl.srt = 45,
addCoef.col = "black",
addCoefasPercent = TRUE,
sig.level = 0.50, insig = "blank")
```



#Study your correlogram image and save it, you will need it later

Create a new data frame with the mean_correct variables removed

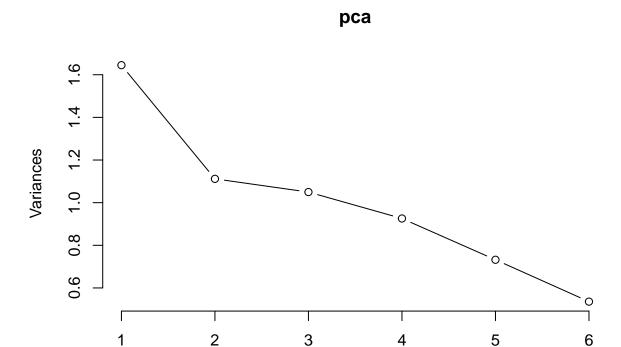
```
D2 <- select(D1, -mean_correct)
#Then, scale and center your data for easier interpretation
D2 <- scale(D2, center = TRUE)</pre>
```

Now run the PCA on the new data frame

```
pca <- prcomp(D2, scale = TRUE)</pre>
```

Although princomp does not generate the eigenvalues directly for us, we can print a list of the standard deviation of the variance accounted for by each component.

```
#$sdev gives the standard deviations of the principal components
pca$sdev
## [1] 1.2825140 1.0543565 1.0245688 0.9621486 0.8556715 0.7320146
#To convert this into variance accounted for we can square it, these numbers are proportional to the ei
pca$sdev^2
## [1] 1.6448423 1.1116675 1.0497412 0.9257299 0.7321737 0.5358454
#A summary of our pca will give us the proportion of variance accounted for by each component
summary(pca)
## Importance of components:
##
                             PC1
                                    PC2
                                           PC3
                                                  PC4
                                                         PC5
## Standard deviation
                          1.2825 1.0544 1.0246 0.9621 0.8557 0.73201
## Proportion of Variance 0.2741 0.1853 0.1750 0.1543 0.1220 0.08931
## Cumulative Proportion 0.2741 0.4594 0.6344 0.7887 0.9107 1.00000
#We can look at this to get an idea of which components we should keep and which we should drop
plot(pca, type = "lines")
```

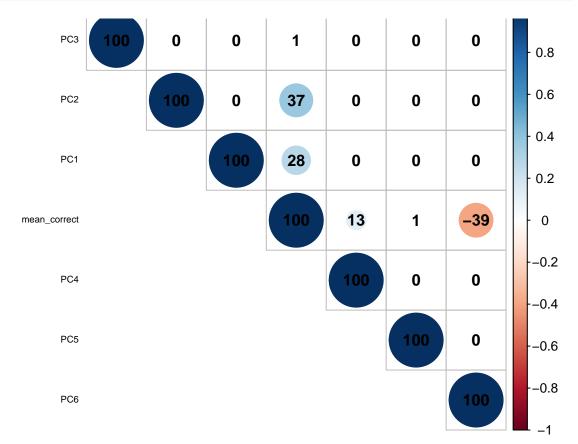


Decide which components you would drop and remove them from your data set.

Probably PC6, but given the next code chunk, I think most would take that back

Part II

```
type = "upper",
tl.col = "black",
tl.cex = 0.6,
tl.srt = 45,
addCoef.col = "black",
addCoefasPercent = TRUE,
sig.level = 0.50, insig = "blank")
```



Now print out the eigenvectors (often called loadings) for the components you generated:

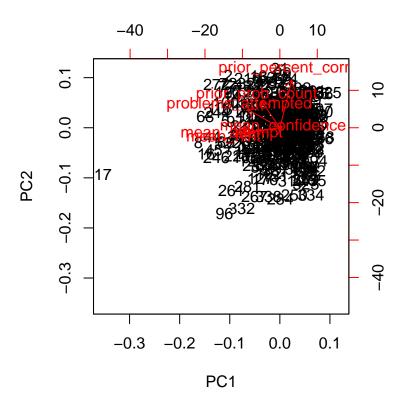
pca\$rotation

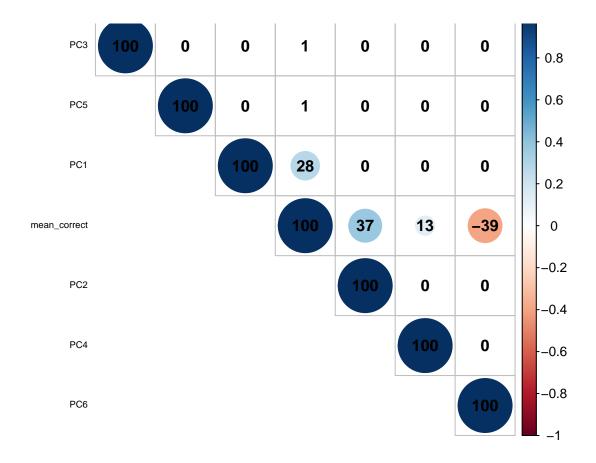
```
PC2
##
                               PC1
                                                      PC3
                                                                PC4
                                    0.45818753 -0.40090679 -0.6897642
## prior_prob_count
                        -0.26034140
## prior_percent_correct
                        0.16840319
                                    0.81617867
                                               0.09267306
                                                          0.2640040
## problems_attempted
                       0.3168141
                       -0.63337594 -0.12501620 -0.08008842 -0.1122586
## mean_hint
                       -0.54200011 -0.08510858 -0.04585364
## mean_attempt
                                                          0.3108682
## mean_confidence
                        0.03581325
                                   0.02547483 -0.83051917
                                                          0.4948890
                                PC5
                                           PC6
##
## prior_prob_count
                       -0.007142834 -0.29280482
## prior_percent_correct 0.298843852 0.37134715
## problems_attempted
                       -0.592336569 -0.32911025
## mean_hint
                       -0.102302115 0.74412634
## mean_attempt
                        0.697232132 -0.33781385
## mean_confidence
                       -0.251357022 -0.01452143
```

```
loadings <- abs(pca$rotation) #abs() will make all eigenvectors positive</pre>
sweep(loadings, 2, colSums(loadings), "/") #sweep() computes each row as a proportion of the column. (T
##
                                PC1
                                           PC2
                                                      PC3
## prior_prob_count
                         0.12423113 0.25081186 0.22101700 0.31516257
## prior_percent_correct 0.08035956 0.44677621 0.05108998 0.12062699
## problems_attempted
                         0.21744737 0.17344469 0.20060288 0.14475664
                         0.30223780 0.06843387 0.04415217 0.05129246
## mean hint
## mean_attempt
                         0.25863458 0.04658844 0.02527878 0.14203987
                         0.01708956 0.01394492 0.45785919 0.22612148
## mean confidence
##
                                 PC5
                                            PC6
## prior_prob_count
                         0.003664468 0.14011651
## prior_percent_correct 0.153315014 0.17770154
## problems_attempted
                         0.303884750 0.15748983
## mean_hint
                         0.052483764 0.35608836
## mean_attempt
                         0.357699023 0.16165478
## mean_confidence
                         0.128952980 0.00694897
#Now examine your components and try to come up with substantive descriptions of what some might repres
#PC1 - Mean hint (most), followed by mean_attempt (this is correlated with mean hint), and problems_att
# represents how much people are trying questions.
#PC2 - Prior % correct, with some prior prob count. Seems to represent student prior competence.
#PC3 - Mean confidence, with some prior pro count and mean attempt. Probably confidence, related to com
# previous experience.
#PC4 - Prior prob count, and mean confidence - rest of variation from these, left by PC2 and 3
#PC5 - Problems attempted and mean attempt. Rest of variation from these left by of PC1.
#PC6 - Mean hint, with a little smattering of everything else. Given that PC6 is related to mean correc
# hint has already shown up in PC1, PC6 likely represents variation in hints/hint-use that actually lea
# correct responses among learners, whereas PC1's mean-hint reflects experience in using them to make o
#You can generate a biplot to help you, though these can be a bit confusing. They plot the transformed
```

#Examine the eigenvectors, notice that they are a little difficult to interpret. It is much easier to m

biplot(pca)





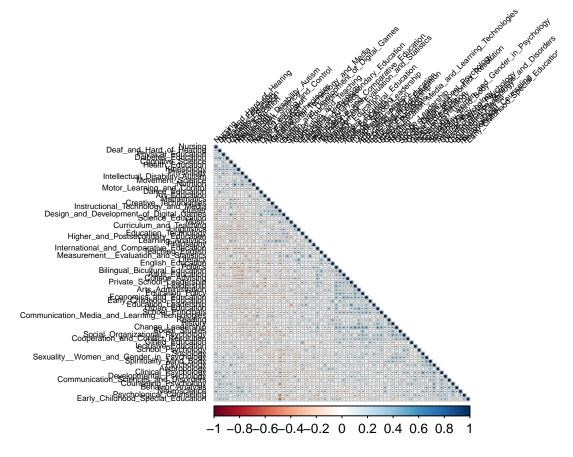
Part III

Also in this repository is a data set collected from class that shows how many students thought that a TC program was related to another TC program. Use PCA to look for components of related programs. Explain why you think there are relationships between these programs.

The underlying structure of the data is a square matrix of 68 programs x 68 programs. Each program is listed as a column name and in the column "program". The numbers in the cells represent the number of people who said that the programs of the row and column which the cell is in are related. This includes the diagonals, instances where the row and column refer to the same program

```
programs_numbers_only <- select(programs_only, -program)

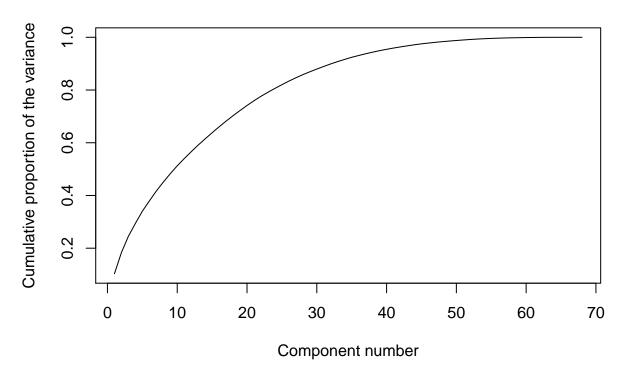
#Recode diagonals as 0?
#diag(programs_numbers_only) <- 0</pre>
```



```
#Then, scale and center your data for easier interpretation
programs_scaled <- scale(programs_numbers_only, center = TRUE)</pre>
```

Cumulative proportion of variance accounted for against componer

first character



```
#Now, create a data frame of the transformed data from your pca.
pca_programs_df <- data.frame(pca_programs$x)
```

What we want to do here is to get the loadings of each program on the PCs, then find which ones contribute the most/least to the PC.

It should be the case that programs with high loadings onto the same PC are 'related programs' since the same component captures a larger degree of variation in both/all these programs. The PC is then a 'component of related programs'.

It is also worth looking at the programs with the lowest loadings onto the same PC as they're likely 'related programs' insofar as the same component fails to capture much variation in these programs. The PC is then also a 'component of related programs'

```
#Get original feature loadings on principal components
loadings_programs <- abs(pca_programs$rotation) #abs() will make all eigenvectors positive
\#sweep() computes each row as a proportion of the column. (There must be a way to do this with dplyr()?
loadings_programs_df <- as.data.frame(sweep(loadings_programs,</pre>
                                              colSums(loadings_programs),
                                              "/")
                                       )
#Define blank data frame
components_by_related_program <- data.frame(initialise = matrix(NA, nrow = 68, ncol = 1))
#Get the PC names to build a for loop
PCs <- colnames(loadings_programs_df)</pre>
#Add the program names as a column instead of rownames to stop them disappearing when using dplyr funct
loadings_programs_df <- rownames_to_column(loadings_programs_df, "programs")</pre>
#For loop to iterate through the PCs, sort them in descending order, and return the most highly weighte
for (column in PCs) {
  sorted_programs <- arrange(loadings_programs_df, desc(!!sym(column)))</pre>
  components_by_related_program <- cbind(components_by_related_program, sorted_programs$programs, strin
}
#clean the output df
components_by_related_program <- components_by_related_program[, -1]</pre>
colnames(components_by_related_program) <- PCs</pre>
```

components_by_related_program

```
##
                                                  PC1
## 1
                                   Change_Leadership
## 2
                             Economics_and_Education
                                   School_Principals
## 3
## 4
                                    Education_Policy
## 5
                                             Politics
## 6
                    Social_Organizational_Psychology
## 7
                Cooperation_and_Conflict_Resolution
## 8
                                 Arts_Administration
## 9
                                     Adult_Education
                           Private_School_Leadership
## 10
## 11
                                           Leadership
## 12
                     Bilingual_Bicultural_Education
## 13
                                             History
## 14
                                     Urban_Education
```

##	15	Education_Leadership
##	16	Clinical_Psychology
##	17	SexualityWomen_and_Gender_in_Psychology
##	18	Sociology
##	19	Reading
##	20	Psychology
##	21	College_Advising
##	22	International_and_Comparative_Education
##	23	Spirituality_Mind_Body
##	24	Physiology
##	25	Art_Education
##	26	Social_Studies
##	27	- Nutrition
##	28	cluster
##	29	Inclusive_Education
##		Early_Childhood_Education
##		Movement_Science
	32	School_Psychology
	33	Motor_Learning_and_Control
	34	Teaching_English
##		Literacy
##		Developmental_Psychology
	37	Counseling_Psychology
	38	Communication_Sciences_and_Disorders
##		Behavior_Analysis
	40	English_Education
	41	Kinesiology
##		Health_Education
##		Design_and_Development_of_Digital_Games
##		Education_Technology
##		Gifted_Education
	46	Communication_Media_and_Learning_Technologies
##		Mathematics
	48	Anthropology
##		AII CIII ODOTOS A
##		
##		Higher_and_Postsecondary_Education
	50	Higher_and_Postsecondary_Education Psychological_Counseling
##	50 51	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics
## ##	50 51 52	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism
## ## ##	50 51 52 53	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience
## ## ## ##	50 51 52 53 54	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching
## ## ## ##	50 51 52 53 54 55	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies
## ## ## ## ##	50 51 52 53 54 55 56	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy
## ## ## ## ## ##	50 51 52 53 54 55 56 57	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics
## ## ## ## ## ##	50 51 52 53 54 55 56 57 58	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education
## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics
## ## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59 60	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education
## ## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59 60 61	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education
## ## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59 60 61 62	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education Music
## ## ## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59 60 61 62 63	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education Music Science_Education
## ## ## ## ## ## ## ## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education Music Science_Education Nursing
## ## ## ## ## ## ## ## ## ## ## ## ##	50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education Music Science_Education Nursing Cognitive_Science
######################################	50 51 52 53 54 55 56 57 58 60 61 62 63 64 65 66	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education Music Science_Education Nursing Cognitive_Science Physical_Education
######################################	50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Higher_and_Postsecondary_Education Psychological_Counseling MeasurementEvaluation_and_Statistics Intellectual_Disability_Autism Neuroscience Curriculum_and_Teaching Creative_Technologies Philosophy Learning_Analytics Diabetes_Education Linguistics Dance_Education Early_Childhood_Special_Education Music Science_Education Nursing Cognitive_Science

##	PC2
## 1	Kinesiology
## 2	Clinical_Psychology
## 3	Health_Education
## 4	Physiology
## 5	Neuroscience
## 6	Nursing
## 7	cluster
## 8	Psychological_Counseling
## 9	Deaf_and_Hard_of_Hearing
## 10	Early_Childhood_Special_Education
## 11	Diabetes_Education
## 12	Counseling_Psychology
## 13	Behavior_Analysis
## 14	Psychology
## 15	SexualityWomen_and_Gender_in_Psychology
## 16	Spirituality_Mind_Body
## 17	Physical_Education
## 18	International_and_Comparative_Education
## 19	Sociology
## 20	Design_and_Development_of_Digital_Games
## 21	Developmental_Psychology
## 22	Communication_Sciences_and_Disorders
## 23	Education_Technology
## 24	Curriculum_and_Teaching
## 25	Movement_Science
## 26	Politics
## 27	Nutrition
## 28	Creative_Technologies
## 29	Music
## 30	Adult_Education
## 31	Teaching_English
## 32	Inclusive_Education
## 33	Anthropology
## 34	School_Psychology
## 35	College_Advising
## 36	Arts_Administration
## 37	Higher_and_Postsecondary_Education
## 38	Learning_Analytics
## 39	Social_Organizational_Psychology
## 40	Cognitive_Science
## 41	Linguistics
## 42	Science_Education
## 43	Intellectual_Disability_Autism
## 44	Private_School_Leadership
## 45	Bilingual_Bicultural_Education
## 46	Education_Policy
## 47	Measurement_Evaluation_and_Statistics
## 48	Cooperation_and_Conflict_Resolution
## 49	Mathematics
## 50	Education_Leadership
## 51	Art_Education
## 52	Economics_and_Education
## 53	Literacy
50	Eliteracy

##	54	<pre>Instructional_Technology_and_Media</pre>
##	55	School_Principals
##	56	English_Education
##	57	Leadership
##	58	Philosophy
##	59	${\tt Communication_Media_and_Learning_Technologies}$
##	60	Urban_Education
##	61	Change_Leadership
##	62	Gifted_Education
##	63	Social_Studies
##	64	Reading
##	65	Early_Childhood_Education
##	66	History
##	67	Motor_Learning_and_Control
##	68	Dance_Education
##		PC3
##	1	Cognitive_Science
##	2	Learning_Analytics
##	_	Mathematics
##		MeasurementEvaluation_and_Statistics
##	_	Design_and_Development_of_Digital_Games
##		Instructional_Technology_and_Media
	7	cluster
##		Education_Technology
##	•	Neuroscience
##	10	Communication_Media_and_Learning_Technologies
##	11	Creative_Technologies
##	12	Motor_Learning_and_Control
##	13	
##	14	Psychology Music
##	15	
		Early_Childhood_Special_Education
##	16	Physical_Education
##	17	Arts_Administration
##	18	Behavior_Analysis
##	19	Dance_Education
##	20	Gifted_Education
##		Movement_Science
##		Nutrition
##		Curriculum_and_Teaching
##		Kinesiology
##		Higher_and_Postsecondary_Education
##		Science_Education
##		Communication_Sciences_and_Disorders
##		${\tt Intellectual_Disability_Autism}$
##		Change_Leadership
##		College_Advising
##		Counseling_Psychology
##	32	Social_Studies
##	33	${\tt Cooperation_and_Conflict_Resolution}$
##	34	Psychological_Counseling
##	35	Leadership
##	36	English_Education
##	37	${\tt Bilingual_Bicultural_Education}$
##	38	Urban_Education

##	39	Health_Education
	40	SexualityWomen_and_Gender_in_Psychology
##	41	Education_Policy
##	42	Reading
##	43	Literacy
##	44	Physiology
##	45	School_Psychology
##	46	Philosophy
##	47	School_Principals
##	48	Clinical_Psychology
##	49	Nursing
##	50	Teaching_English
##	51	Deaf_and_Hard_of_Hearing
##	52	${\tt International_and_Comparative_Education}$
##	53	Anthropology
##	54	Private_School_Leadership
##	55	Art_Education
##	56	Politics
##	57	Diabetes_Education
##	58	Social_Organizational_Psychology
##	59	Economics_and_Education
##	60	Early_Childhood_Education
##	61	Adult_Education
##	62	Linguistics
##	63	Education_Leadership
##	64	Sociology
##	65	Developmental_Psychology
##	66	Spirituality_Mind_Body
##	67	History
##	68	Inclusive_Education
##		PC4
##	1	Linguistics
##	2	English_Education
##	3	Teaching_English
##	4	Deaf_and_Hard_of_Hearing
##	5	cluster
##	6	Literacy
##	7	Early_Childhood_Special_Education
##	8	Design_and_Development_of_Digital_Games
##	9	Communication_Sciences_and_Disorders
##	10	Leadership
##	11	Sociology
##	12	Politics
##	13	Bilingual_Bicultural_Education
##	14	Early_Childhood_Education
##	15	Cognitive_Science
##	16	Anthropology
##	17	Creative_Technologies
##	18	Health_Education
##	19	Psychological_Counseling
##	20	Physiology
##	21	Curriculum_and_Teaching
##	22	Change_Leadership
##	23	Education_Leadership
	-	

##		Gifted_Education
##		Intellectual_Disability_Autism
##		Dance_Education
	27	Instructional_Technology_and_Media
##	28	Economics_and_Education
##		Education_Policy
##		Counseling_Psychology
	31	Sexuality_Women_and_Gender_in_Psychology
##		Philosophy
##		Urban_Education
	34	Reading
##	35	Motor_Learning_and_Control
##	36	Science_Education
##	37	Nursing
##	38	Physical_Education
##	39	Adult_Education
##		Learning_Analytics
##		Cooperation_and_Conflict_Resolution
##		Mathematics
##		Movement_Science
		Communication_Media_and_Learning_Technologies
##		Measurement_Evaluation_and_Statistics
##		Music
##		Private_School_Leadership
##		Neuroscience
##		School_Principals
##		Education_Technology
##		Clinical_Psychology
##		History
##		Arts_Administration
##		College_Advising
##		International_and_Comparative_Education
##		Kinesiology
##		Spirituality_Mind_Body Diabetes_Education
	59	Nutrition
##		Developmental_Psychology
##		Social_Organizational_Psychology
	62	Behavior_Analysis
	63	Higher_and_Postsecondary_Education
	64	Psychology
	65	Social_Studies
	66	Inclusive_Education
	67	School_Psychology
	68	Art_Education
##	00	PC5
##	1	History
	2	Urban_Education
	3	Higher_and_Postsecondary_Education
	4	Dance_Education
	5	Music
	6	Counseling_Psychology
##	7	Arts_Administration
##		Private_School_Leadership
	-	

##	9	Education_Technology
##	10	Reading
##	11	Philosophy
##	12	Psychological_Counseling
##	13	Education_Leadership
##	14	Gifted_Education
##	15	Inclusive_Education
##	16	Linguistics
##	17	Spirituality_Mind_Body
##	18	SexualityWomen_and_Gender_in_Psychology
##	19	cluster
##	20	Nursing
##	21	Art_Education
##	22	Science_Education
##	23	College_Advising
##	24	Literacy
##	25	Economics_and_Education
##	26	Motor_Learning_and_Control
##	27	Early_Childhood_Special_Education
##	28	Psychology
##	29	Design_and_Development_of_Digital_Games
##	30	Early_Childhood_Education
##	31	Change_Leadership
	32	Social_Studies
##	33	Adult_Education
	34	Cognitive_Science
##		Developmental_Psychology
##	36	Communication_Sciences_and_Disorders
##	37	Communication_Media_and_Learning_Technologies
##		Anthropology
##		Mathematics
##	40	Physiology
##		International_and_Comparative_Education
##		Deaf_and_Hard_of_Hearing
	43	Social_Organizational_Psychology
	44	Nutrition
##	45	Neuroscience
	46	Teaching_English
	47	Politics
	48	Health_Education
##		MeasurementEvaluation_and_Statistics
##		Clinical_Psychology
##		Kinesiology
	52	School_Psychology
	53	English_Education
	54	Creative_Technologies
	55	Curriculum_and_Teaching
	56	Diabetes_Education
	57	Leadership
	58	Bilingual_Bicultural_Education
	59	Physical_Education
	60	Education_Policy
	61	Intellectual_Disability_Autism
	62	Sociology
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##	63	School_Principals
##	64	<pre>Instructional_Technology_and_Media</pre>
##	65	Learning_Analytics
##	66	Cooperation_and_Conflict_Resolution
##	67	Behavior_Analysis
##	68	Movement_Science
##		PC6
##	1	Science_Education
##	2	Higher_and_Postsecondary_Education
##	3	School_Psychology
##	4	Private_School_Leadership
##	5	Measurement_Evaluation_and_Statistics
##	6	Movement_Science
##	7	College_Advising
##	8	Communication_Sciences_and_Disorders
##	9	Social_Studies
##	10	Learning_Analytics
##	11	Inclusive_Education
##	12	Health_Education
##	13	Nutrition
##	14	International_and_Comparative_Education
##	15	Anthropology
##	16	Adult_Education
##	17	Reading
##	18	Instructional_Technology_and_Media
##	19	Change_Leadership
##	20 21	Creative_Technologies
## ##		Design_and_Development_of_Digital_Games
##		Sexuality_Women_and_Gender_in_Psychology
	23	Psychological_Counseling
##		Social_Organizational_Psychology Dance_Education
	26	Diabetes_Education
##		_
		Intellectual_Disability_Autism
##	28 29	Deaf_and_Hard_of_Hearing
	30	Bilingual_Bicultural_Education
		Philosophy
## ##		Curriculum_and_Teaching
		Spirituality_Mind_Body Neuroscience
##		
##		cluster
##		Nursing
##		Behavior_Analysis
## ##	37 38	Motor_Learning_and_Control Cognitive_Science
##	39	
	40	Physiology English Education
	41	English_Education
	41	Counseling_Psychology
		Clinical_Psychology
	43	History
	44 45	Education_Leadership Education_Technology
	45 46	
	46 47	Literacy
##	47	School_Principals

##	48	Mathematics
##	49	Art_Education
##	50	Kinesiology
##	51	Arts_Administration
##	52	Politics
##	53	Early_Childhood_Special_Education
##	54	Teaching_English
##	55	Early_Childhood_Education
##	56	Leadership
##	57	Cooperation_and_Conflict_Resolution
##	58	Gifted_Education
##	59	Developmental_Psychology
##	60	Economics_and_Education
##	61	Music
##	62	Psychology
##	63	Physical_Education
##	64	Education_Policy
##	65	Urban_Education
##	66	Communication_Media_and_Learning_Technologies
##	67	Sociology
##	68	Linguistics
##		PC7
##	1	Gifted Education
##	2	Communication_Sciences_and_Disorders
##	3	Dance_Education
##	4	Music
##	5	Education_Policy
##	6	Early_Childhood_Education
##	7	Social_Studies
##	8	Literacy
##	9	School_Principals
##	10	Deaf_and_Hard_of_Hearing
##	11	Bilingual_Bicultural_Education
##	12	Diabetes Education
##	13	Adult Education
##	14	Art Education
##	15	Counseling_Psychology
##	16	Anthropology
##	17	Creative_Technologies
##	18	Spirituality_Mind_Body
##	19	Linguistics
##	20	Early_Childhood_Special_Education
##	21	Communication_Media_and_Learning_Technologies
##	22	Clinical_Psychology
##	23	MeasurementEvaluation_and_Statistics
##	24	Education_Leadership
##	25	Inclusive_Education
##	26	Higher_and_Postsecondary_Education
##	27	Learning_Analytics
##	28	Sexuality_Women_and_Gender_in_Psychology
##	29	Education_Technology
##		Science_Education
	31	Psychology
	32	Sociology
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	33	Motor_Learning_and_Control
##	34	Mathematics
##	35	Change_Leadership
##	36	Kinesiology
##	37	School_Psychology
##	38	Private_School_Leadership
##	39	Arts_Administration
##		<pre>Instructional_Technology_and_Media</pre>
##		Cooperation_and_Conflict_Resolution
##		Cognitive_Science
##		English_Education
##	44	Neuroscience
##	45	Economics_and_Education
##	46	Politics
##	47	Behavior_Analysis
##	48	Reading
##	49	Physiology
##	50	cluster
##	51	Teaching_English
##	52	Nursing
##	53	Developmental_Psychology
##	54	Nutrition
##	55	Health_Education
##	56	History
##	57	<pre>Intellectual_Disability_Autism</pre>
##	58	Philosophy
##	59	Social_Organizational_Psychology
##	60	Curriculum_and_Teaching
##	61	Movement_Science
##	62	Physical_Education
##	63	<pre>International_and_Comparative_Education</pre>
##	64	Design_and_Development_of_Digital_Games
##	65	Psychological_Counseling
##	66	Leadership
##	67	College_Advising
##	68	Urban_Education
##		PC8
##	1	Social_Studies
##	2	International_and_Comparative_Education
##		Urban_Education
##	4	Literacy
##	5	Communication_Media_and_Learning_Technologies
##	6	Mathematics
##	7	Early_Childhood_Education
##	8	Motor_Learning_and_Control
##	9	Creative_Technologies
##	10	Gifted_Education
##	11	Diabetes_Education
##	12	Developmental_Psychology
##	13	Social_Organizational_Psychology
##	14	College_Advising
##	15	Learning_Analytics
##	16	Teaching_English
##	17	Politics
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##	18	SexualityWomen_and_Gender_in_Psychology
##	19	Behavior_Analysis
##	20	Economics_and_Education
##	21	Higher_and_Postsecondary_Education
##	22	Leadership
##	23	History
##	24	Physiology
##	25 26	Reading
##	26 27	Private_School_Leadership Education_Leadership
##	28	Instructional_Technology_and_Media
##	29	Early_Childhood_Special_Education
##	30	Arts_Administration
##	31	Inclusive_Education
##	32	Sociology
##	33	Deaf_and_Hard_of_Hearing
##	34	cluster
##	35	Art Education
##	36	Communication_Sciences_and_Disorders
##	37	Adult_Education
		Cognitive_Science
	39	Dance_Education
	40	Education_Policy
##		School_Psychology
	42	Anthropology
	43	Physical_Education
	44	Design_and_Development_of_Digital_Games
##		Nutrition
##		Education_Technology
	47	English_Education
##		Science_Education
##		Intellectual_Disability_Autism
##		Linguistics
##		Movement_Science
##		Psychology
##		Clinical_Psychology
	54	Nursing
	55	Curriculum_and_Teaching
##		Neuroscience
	57	Music
##		Kinesiology
##		Bilingual_Bicultural_Education
##		Health_Education
##	61	Spirituality_Mind_Body
##		Change_Leadership
##		Psychological_Counseling
##		Counseling_Psychology
	65	Cooperation_and_Conflict_Resolution
##	66	Philosophy
##	67	MeasurementEvaluation_and_Statistics
##	68	School_Principals
##	-	PC9
##	1	Curriculum_and_Teaching
##	2	Developmental_Psychology
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## 3	Nutrition
## 4	School_Principals
## 5	Spirituality_Mind_Body
## 6	Social_Organizational_Psychology
## 7	School_Psychology
## 8	Health_Education
## 9	Physical_Education
## 1	SexualityWomen_and_Gender_in_Psychology
## 1	1 Communication_Media_and_Learning_Technologies
## 1	2 Bilingual_Bicultural_Education
## 1	B Early_Childhood_Education
## 1	Diabetes_Education
## 1	Early_Childhood_Special_Education
## 1	Gifted_Education
## 1	7 Cooperation_and_Conflict_Resolution
## 1	
## 1	9 Politics
## 2	Education_Policy
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## 5	
## 5	6 Motor_Learning_and_Control

#	#	57	Literacy
#	#	58	<pre>Instructional_Technology_and_Media</pre>
#	#	59	Kinesiology
#	#	60	College_Advising
#	#	61	Sociology
#	#	62	Reading
#	#	63	Movement_Science
#	#	64	Private_School_Leadership
#	#	65	International_and_Comparative_Education
#	#	66	Linguistics
#	#	67	Adult_Education
#	#	68	Communication_Sciences_and_Disorders
#	#		PC10
#	#	1	Intellectual_Disability_Autism
#	#	2	Philosophy
#	#	3	Cooperation_and_Conflict_Resolution
#	#	4	Deaf_and_Hard_of_Hearing
#	#	5	Behavior_Analysis
		6	College_Advising
	#	7	Mathematics
	#	8	Education_Leadership
	#	9	Bilingual_Bicultural_Education
	#	10	Communication_Media_and_Learning_Technologies
	#	11	Anthropology
	#	12	Linguistics
	#	13	Nursing
	#	14	Health Education
	#	15	School_Psychology
	#	16	Measurement_Evaluation_and_Statistics
	#	17	Movement_Science
	#	18	Leadership
	#	19	Literacy
	#	20	Dance_Education
	#	21	Design_and_Development_of_Digital_Games
	#	22	Science Education
		23	Early_Childhood_Special_Education
		24	Higher_and_Postsecondary_Education
	#	25	Teaching_English
	#	26	English_Education
		27	Developmental_Psychology
		28	Adult Education
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	#	30	${\tt Economics_and_Education} \ {\tt Art Education}$
	#	31	-
		32	Education_Policy
	#		Physical_Education
	#	33	Education_Technology
	#	34	Reading Farly Childhood Education
	#	35	Early_Childhood_Education
	#	36	Psychological_Counseling
	#	37	Creative_Technologies
	#	38	Inclusive_Education
		39	Diabetes_Education
		40	Instructional_Technology_and_Media
#	#	41	Change_Leadership

	42	Sociology
	43	Kinesiology
	44	Nutrition
	45	Social_Organizational_Psychology
	46	Social_Studies
	47	Psychology
	48	Communication_Sciences_and_Disorders
	49	Politics
	50	cluster
	51	Gifted_Education
	52	School_Principals
	53	Counseling_Psychology
	54	Arts_Administration
##	55	Private_School_Leadership
##	56	Urban_Education
##	57	History
##	58	$International_and_Comparative_Education$
##	59	Learning_Analytics
##	60	Curriculum_and_Teaching
##	61	Motor_Learning_and_Control
##	62	SexualityWomen_and_Gender_in_Psychology
##	63	Spirituality_Mind_Body
##	64	Cognitive_Science
##	65	Neuroscience
##	66	Clinical_Psychology
##	67	Music
##	68	Physiology
##		PC11
##	1	Art_Education
##	2	Curriculum_and_Teaching
##	3	${\tt Instructional_Technology_and_Media}$
##	4	College_Advising
##	5	Learning_Analytics
##	6	${\tt Intellectual_Disability_Autism}$
##	7	Neuroscience
##	8	Motor_Learning_and_Control
##	9	Counseling_Psychology
##	10	Communication_Sciences_and_Disorders
##	11	Social_Organizational_Psychology
##	12	Behavior_Analysis
##	13	Philosophy
##	14	Social_Studies
##	15	Anthropology
##	16	Nursing
##	17	Cognitive_Science
##	18	English_Education
##	19	Physiology
##	20	Bilingual_Bicultural_Education
##	21	Communication_Media_and_Learning_Technologies
##	22	Adult_Education
##	23	Deaf_and_Hard_of_Hearing
##	24	Dance_Education
##	25	Urban_Education
##	26	Early_Childhood_Education

##		Education_Policy
	28	Economics_and_Education
	29	Sociology
	30	Leadership
	31	Psychology
	32	History
	33	Developmental_Psychology
	34	Kinesiology
	35	Diabetes_Education
	36	Education_Leadership
	37	Early_Childhood_Special_Education
	38	Inclusive_Education
	39	Private_School_Leadership
##	40	Creative_Technologies
##	41	${\tt International_and_Comparative_Education}$
##	42	Nutrition
##	43	Clinical_Psychology
##	44	Movement_Science
##	45	Education_Technology
##	46	Reading
##	47	cluster
##	48	Politics
##	49	SexualityWomen_and_Gender_in_Psychology
##	50	${\tt Cooperation_and_Conflict_Resolution}$
##	51	MeasurementEvaluation_and_Statistics
##	52	Spirituality_Mind_Body
##	53	Linguistics
##	54	Science_Education
##	55	Literacy
##	56	Psychological_Counseling
##	57	Change_Leadership
##	58	<pre>Design_and_Development_of_Digital_Games</pre>
##	59	Music
##	60	Physical_Education
##	61	Arts_Administration
##	62	School_Psychology
##	63	<pre>Higher_and_Postsecondary_Education</pre>
##	64	Health_Education
##	65	School_Principals
##	66	Teaching_English
##	67	Gifted_Education
##	68	Mathematics
##		PC12
##	1	Education_Technology
##	2	Reading
##	3	College_Advising
##	4	Diabetes_Education
##	5	Nutrition
##	6	Movement_Science
##	7	Psychology
##	8	Science_Education
##	9	Art_Education
##	10	Learning_Analytics
##	11	MeasurementEvaluation_and_Statistics
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##	12	Linguistics
##	13	Social_Organizational_Psychology
##	14	Health_Education
##	15	Leadership
##	16	Mathematics
##	17	Kinesiology
##	18	Anthropology
##	19	Nursing
##	20	Literacy
##	21	SexualityWomen_and_Gender_in_Psychology
##	22	Economics_and_Education
##	23	Early_Childhood_Education
##	24	Physical_Education
##	25	Spirituality_Mind_Body
##	26	Communication_Media_and_Learning_Technologies
##	27	Instructional_Technology_and_Media
##	28	School_Psychology
##	29	Cognitive_Science
##	30	International_and_Comparative_Education
##	31	Curriculum_and_Teaching
##	32	Gifted_Education
##		Physiology
##		Sociology
##		Education_Leadership
##		Deaf_and_Hard_of_Hearing
##		Creative_Technologies
##		Inclusive_Education
##		Motor_Learning_and_Control
##		Design_and_Development_of_Digital_Games
##		Teaching_English
##		Clinical_Psychology
##		Intellectual_Disability_Autism
##		Early_Childhood_Special_Education
##		Behavior_Analysis
##		Counseling_Psychology
##		Politics
##		cluster
##		Cooperation_and_Conflict_Resolution
##		History
##		Psychological_Counseling
##		Social_Studies
##		Adult_Education
##		English_Education
##		School_Principals
##		Private_School_Leadership
##		Filvate_School_Leadership Music
##		Arts_Administration
	59 60	Bilingual_Bicultural_Education
	60	Urban_Education
	61	Developmental_Psychology
	62 63	Philosophy Education Policy
	63	Education_Policy
##		Higher_and_Postsecondary_Education
##	65	Change_Leadership

##	66	Dance_Education
##	67	Neuroscience
##	68	Communication_Sciences_and_Disorders
##		PC13
##	1	Leadership
	2	Inclusive_Education
##		Teaching_English
##		Music
##	5	Philosophy
##	6	Gifted_Education
##	7	Intellectual_Disability_Autism
##	8	Physical_Education
##	9	Education_Leadership
##	10	Sociology
##	11 12	Instructional_Technology_and_Media
	13	Education_Technology
##	14	${ t Motor_Learning_and_Control}$ ${ t Nutrition}$
	15	Cooperation_and_Conflict_Resolution
##	16	Psychology
	17	Private_School_Leadership
##	18	Movement_Science
	19	Kinesiology
##		Sexuality_Women_and_Gender_in_Psychology
##		Health_Education
##		Higher_and_Postsecondary_Education
##		Curriculum_and_Teaching
##		Creative_Technologies
##	25	History
##	26	Clinical_Psychology
##	27	Nursing
##	28	Design_and_Development_of_Digital_Games
##	29	Social_Organizational_Psychology
##	30	International_and_Comparative_Education
##	31	Linguistics
##	32	Psychological_Counseling
##	33	Physiology
##	34	English_Education
##	35	Diabetes_Education
##	36	Education_Policy
##	37	Cognitive_Science
##	38	cluster
##	39	Behavior_Analysis
##		Learning_Analytics
##		Anthropology
##		Literacy
##		Counseling_Psychology
##		Early_Childhood_Education
##		Developmental_Psychology
##		Early_Childhood_Special_Education
##		Arts_Administration
##		Neuroscience
##		Communication_Sciences_and_Disorders
##	50	Urban_Education

##	51	Change_Leadership
##	52	Politics
##	53	School_Principals
##	54	${\tt Communication_Media_and_Learning_Technologies}$
##	55	Science_Education
##	56	Deaf_and_Hard_of_Hearing
##	57	MeasurementEvaluation_and_Statistics
##	58	Dance_Education
##	59	Mathematics
##	60	${\tt Bilingual_Bicultural_Education}$
##	61	Economics_and_Education
##	62	School_Psychology
##	63	Spirituality_Mind_Body
##	64	Adult_Education
##	65	Art_Education
##	66	Reading
##	67	College_Advising
##	68	Social_Studies
##		PC14
##	1	Behavior_Analysis
##	2	Inclusive_Education
##	3	School_Psychology
##	4	Psychological_Counseling
##	5	Philosophy
##	6	Leadership
##	7	Health_Education
##	8	Education_Leadership
##	9	Social_Studies
##	10	Social_Organizational_Psychology
##	11	<pre>Design_and_Development_of_Digital_Games</pre>
##	12	Developmental_Psychology
##	13	Physical_Education
##	14	$International_and_Comparative_Education$
##	15	Spirituality_Mind_Body
##	16	Science_Education
##	17	${\tt Communication_Media_and_Learning_Technologies}$
##	18	Music
##	19	Mathematics
##	20	Counseling_Psychology
##	21	Physiology
##	22	History
##	23	Nursing
##	24	English_Education
##	25	Economics_and_Education
##	26	Kinesiology
##	27	Motor_Learning_and_Control
##	28	Literacy
	29	Education_Technology
	30	<pre>Higher_and_Postsecondary_Education</pre>
	31	Education_Policy
##		cluster
##		Private_School_Leadership
##		Movement_Science
##	35	Learning_Analytics

##	36	Adult_Education
##	37	<pre>Instructional_Technology_and_Media</pre>
##	38	Teaching_English
##	39	Early_Childhood_Special_Education
##	40	Dance_Education
##	41	Bilingual_Bicultural_Education
##	42	Gifted_Education
##	43	Nutrition
##	44	Change_Leadership
##	45	Politics
##	46	SexualityWomen_and_Gender_in_Psychology
##	47	Cognitive_Science
##	48	Communication_Sciences_and_Disorders
##	49	Clinical_Psychology
##	50	Art_Education
##	51	- Anthropology
##	52	Neuroscience
##	53	Reading
##	54	Urban Education
	55	Arts_Administration
	56	MeasurementEvaluation_and_Statistics
	57	Curriculum_and_Teaching
	58	Creative_Technologies
	59	Sociology
	60	Linguistics
	61	Deaf_and_Hard_of_Hearing
	62	Intellectual_Disability_Autism
	63	Cooperation_and_Conflict_Resolution
	64	Psychology
	65	College_Advising
	66	School_Principals
	67	Diabetes_Education
	68	Early_Childhood_Education
##	00	PC15
##	1	Education_Leadership
##	2	Developmental_Psychology
##	3	Philosophy
##		Literacy
##		Economics_and_Education
##		Physical_Education
##		Private_School_Leadership
##		Linguistics
##		Diabetes_Education
##	10	English_Education
##	11	Spirituality_Mind_Body
##	12	Spirituarity_Mind_Body Music
##	13 14	Inclusive_Education
##		Deaf_and_Hard_of_Hearing
##	15	Clinical_Psychology
##	16	Dance_Education
##	17	Psychology
##	18	Higher_and_Postsecondary_Education
##	19	College_Advising
##	20	${\tt Intellectual_Disability_Autism}$

##		Nursing
##		Mathematics
##		Motor_Learning_and_Control
	24	Arts_Administration
	25	Curriculum_and_Teaching
##	26	Neuroscience
	27	Health_Education
	28	Learning_Analytics
##	29 30	History cluster
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##	32	Teaching_English School_Psychology
##	33	School_rsychology Sociology
##	34	
##	35	Cognitive_Science Nutrition
##	36	Politics
##	37	Psychological_Counseling
##	38	Kinesiology
##		Communication_Sciences_and_Disorders
##		Anthropology
##		International_and_Comparative_Education
	42	Adult_Education
	43	Social_Organizational_Psychology
	44	Movement_Science
##		Leadership
##		Physiology
	47	Instructional_Technology_and_Media
	48	Social_Studies
##		Creative_Technologies
##		Art_Education
##		Early_Childhood_Education
##		Behavior_Analysis
##		Bilingual_Bicultural_Education
##		Counseling_Psychology
##		Design_and_Development_of_Digital_Games
##		Education_Policy
##	57	Science_Education
	58	School_Principals
	59	Reading
	60	Communication_Media_and_Learning_Technologies
##		Early_Childhood_Special_Education
##	62	Sexuality_Women_and_Gender_in_Psychology
##	63	Measurement_Evaluation_and_Statistics
##	64	Gifted_Education
##		Education_Technology
##	66	Cooperation_and_Conflict_Resolution
##	67	Change_Leadership
##	68	Urban_Education
##		PC16
##	1	Instructional_Technology_and_Media
##	2	Curriculum_and_Teaching
##		Sexuality_Women_and_Gender_in_Psychology
##	4	Nursing
##	5	Early_Childhood_Education
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##	6	Nutrition
##	7	Teaching_English
##	8	Counseling_Psychology
##	9	School_Principals
##	10	Cooperation_and_Conflict_Resolution
##	11	Change_Leadership
##	12	Learning_Analytics
##	13	Adult_Education
##	14	Physiology
##	15	Cognitive_Science
##	16	Mathematics
##	17	Kinesiology
##	18	Clinical_Psychology
##	19	Music
##	20	Spirituality_Mind_Body
##	21	${\tt Communication_Media_and_Learning_Technologies}$
##	22	Psychology
##	23	Education_Technology
##	24	Psychological_Counseling
##	25	English_Education
##	26	College_Advising
##	27	Behavior_Analysis
##	28	Private_School_Leadership
##	29	Philosophy
##	30	Neuroscience
##	31	Creative_Technologies
##	32	Reading
##	33	<pre>International_and_Comparative_Education</pre>
##	34	<pre>Design_and_Development_of_Digital_Games</pre>
##	35	Education_Leadership
##	36	Linguistics
##	37	Art_Education
##	38	Urban_Education
##	39	Physical_Education
##	40	Communication_Sciences_and_Disorders
##	41	Education_Policy
##	42	Early_Childhood_Special_Education
##	43	Deaf_and_Hard_of_Hearing
##	44	Science_Education
##	45	Economics_and_Education
##	46	Intellectual_Disability_Autism
##	47	Gifted_Education
##	48	Social_Studies
##	49	Politics
##	50	Developmental_Psychology
##	51	Movement_Science
##		Dance_Education
##		Health_Education
##		cluster
	55	History
##		Bilingual_Bicultural_Education
##		Anthropology
##	58	Motor_Learning_and_Control
##	59	Social_Organizational_Psychology

##	60	Arts_Administration
##	61	<pre>Higher_and_Postsecondary_Education</pre>
##	62	Inclusive_Education
##	63	Sociology
##	64	Diabetes_Education
##	65	Literacy
##	66	MeasurementEvaluation_and_Statistics
##	67	Leadership
##	68	School_Psychology
##		PC17
##	1	Anthropology
##	2	Art_Education
##	3	Neuroscience
##	4	Communication_Media_and_Learning_Technologies
##	5	School_Psychology
##	6	Movement_Science
##	7	Kinesiology
##	8	Higher_and_Postsecondary_Education
##		Motor_Learning_and_Control
##	10	Deaf_and_Hard_of_Hearing
##	11	Reading
	12	Education_Policy
	13	Counseling_Psychology
##		Social_Studies
	15	Politics
##	16	Physiology
##	17	Early_Childhood_Education
##	18	Learning_Analytics
##	19	Diabetes_Education
	20	Music
	21	Economics_and_Education
	22	Measurement_Evaluation_and_Statistics
	23	Cognitive_Science
	24	Creative_Technologies
	25	Education_Technology
	26	Psychological_Counseling
	27	Private_School_Leadership
	28	Design_and_Development_of_Digital_Games
##	29	English_Education
	30	Nursing
	31	Gifted_Education
	32	Mathematics
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	34	Sociology Psychology
	35	Arts_Administration
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	36	Philosophy Paharian Analysis
		Behavior_Analysis
	38	Science_Education
	39	Social_Organizational_Psychology
	40	Literacy
	41	Health_Education
	42	Physical_Education
	43	Leadership
##	44	Education_Leadership

##	45	${\tt Intellectual_Disability_Autism}$
##		Dance_Education
##		Early_Childhood_Special_Education
##		Adult_Education
##		International_and_Comparative_Education
##	50 51	School_Principals
##		Change_Leadership
		Communication_Sciences_and_Disorders Developmental_Psychology
		Developmental_rsychology History
	55	Spirituality_Mind_Body
##	56	Instructional_Technology_and_Media
##	57	Curriculum_and_Teaching
##		Linguistics
##	59	Cooperation_and_Conflict_Resolution
##		cluster
##		Clinical_Psychology
##		Teaching_English
##		Urban_Education
##		Inclusive_Education
##		Sexuality_Women_and_Gender_in_Psychology
##		Nutrition
##		College_Advising
##		Bilingual_Bicultural_Education
##	00	PC18
##	1	MeasurementEvaluation_and_Statistics
##	2	Anthropology
##	3	Mathematics
##	4	Movement_Science
##	5	Diabetes_Education
##	6	Nursing
##	7	Sociology
##	8	Intellectual_Disability_Autism
##	9	Learning_Analytics
##	10	Early_Childhood_Special_Education
##	11	Inclusive_Education
##	12	English_Education
##	13	Social_Organizational_Psychology
##	14	Physiology
##	15	School_Psychology
##	16	Gifted_Education
##	17	Economics_and_Education
##	18	Communication_Media_and_Learning_Technologies
##	19	Philosophy
##	20	Private_School_Leadership
##	21	Science_Education
##	22	College_Advising
##	23	Instructional_Technology_and_Media
##	24	Bilingual_Bicultural_Education
##	25	Music
##	26	Developmental_Psychology
##	27	Adult_Education
##	28	Creative_Technologies
##		Neuroscience

##	30	Education_Leadership
##	31	Reading
##	32	School_Principals
##	33	Spirituality_Mind_Body
##	34	Behavior_Analysis
##	35	Early_Childhood_Education
##	36	Curriculum_and_Teaching
##	37	<pre>Higher_and_Postsecondary_Education</pre>
##	38	$International_and_Comparative_Education$
##	39	Education_Policy
##	40	Urban_Education
##	41	Education_Technology
##	42	Teaching_English
##	43	Dance_Education
##	44	Motor_Learning_and_Control
##	45	Communication_Sciences_and_Disorders
##	46	Psychological_Counseling
##	47	Cooperation_and_Conflict_Resolution
##	48	Kinesiology
##	49	Social_Studies
##	50	Psychology
##	51	Literacy
##	52	Counseling_Psychology
##	53	cluster
##	54	History
##	55	Deaf_and_Hard_of_Hearing
##	56	Art_Education
##	57	Arts_Administration
##	58	Linguistics
##	59	Health_Education
##	60	Politics
##	61	Leadership
##	62	SexualityWomen_and_Gender_in_Psychology
##	63	Nutrition
##	64	Cognitive_Science
##	65	Change_Leadership
##	66	Clinical_Psychology
	67	Physical_Education
##	68	Design_and_Development_of_Digital_Games
##	•	PC19
##	1	Cognitive_Science
##	2	Creative_Technologies
##	3	Science_Education
##		Behavior_Analysis
##	5	Deaf_and_Hard_of_Hearing
##	6	Psychology
##	7	Cooperation_and_Conflict_Resolution
##	8	Reading
##	9	Intellectual_Disability_Autism
##	10	
##	11	${\tt Motor_Learning_and_Control}\\ {\tt Music}$
##	12	
		<pre>International_and_Comparative_Education MeasurementEvaluation_and_Statistics</pre>
##	13	
##	14	English_Education

##	15	Communication_Sciences_and_Disorders
##	16	Education_Technology
##	17	Physiology
##	18	School_Psychology
##	19	Urban_Education
##	20	Dance_Education
##	21	Developmental_Psychology
##	22	Kinesiology
##	23	Philosophy
##	24	${\tt Bilingual_Bicultural_Education}$
##	25	Health_Education
##	26	Art_Education
##	27	Curriculum_and_Teaching
##	28	Higher_and_Postsecondary_Education
##	29	Education_Policy
##	30	Education_Leadership
##	31	Economics_and_Education
##	32	Social_Organizational_Psychology
##	33	Private_School_Leadership
##	34	Politics
##	35	Gifted_Education
##	36	Movement_Science
##	37	Psychological_Counseling
##	38	Social_Studies
##	39	School_Principals
##	40	Early_Childhood_Education
##	41	Adult_Education
##	42	Spirituality_Mind_Body
##	43	Communication_Media_and_Learning_Technologies
##		History
##	45	Linguistics
##	46	Leadership
##	47	Physical_Education
##	48	Mathematics
##		SexualityWomen_and_Gender_in_Psychology
##		Early_Childhood_Special_Education
##	51	Nursing
##		Counseling_Psychology
##		Teaching_English
##		Neuroscience
##		Sociology
##		Design_and_Development_of_Digital_Games
##		College_Advising
##		Change_Leadership
##		Diabetes_Education
	60	Learning_Analytics
	61	Clinical_Psychology
	62	Instructional_Technology_and_Media
	63	Nutrition
	64	Inclusive_Education
	65	Anthropology
	66	Arts_Administration
	67	cluster
##		Literacy
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##		PC20
##	1	Physical_Education
##	2	Psychological_Counseling
##	3	Sociology
##	4	Reading
##	5	<pre>Instructional_Technology_and_Media</pre>
##	6	<pre>Higher_and_Postsecondary_Education</pre>
##	7	Adult_Education
##	8	Science_Education
##	9	Counseling_Psychology
##	10	Anthropology
##	11	Arts_Administration
##	12	Health_Education
##	13	History
##	14	Cognitive_Science
##	15	Movement_Science
##	16	College_Advising
##	17	English_Education
##	18	Clinical_Psychology
##	19	Education_Policy
##	20	Politics
##	21	Diabetes_Education
##	22	School_Psychology
##	23	Music
##	24	Bilingual_Bicultural_Education
##	25	Neuroscience
##	26	Teaching_English
##	27	Private_School_Leadership
##	28	Spirituality_Mind_Body
##	29	School_Principals
##	30	Early_Childhood_Education
##	31	Change_Leadership
##	32	Curriculum_and_Teaching
##	33	Philosophy
##	34	Literacy
##	35	Nursing
##	36	Social_Organizational_Psychology
##	37	Leadership
##	38	Cooperation_and_Conflict_Resolution
	39	Inclusive_Education
##	40	Kinesiology
##	41	MeasurementEvaluation_and_Statistics
##	42	cluster
##	43	Education_Technology
	44	Physiology
##	45	Urban_Education
##	46	Early_Childhood_Special_Education
	47	Education_Leadership
	48	Developmental_Psychology
##		Social_Studies
##		Intellectual_Disability_Autism
##		Communication_Media_and_Learning_Technologies
##	52	Deaf_and_Hard_of_Hearing
	53	Dance_Education
11 TT	55	Dance_Lateation

4 Gifted_Education	54	##
5 SexualityWomen_and_Gender_in_Psycholog	55	##
6 Mathematic	56	##
7 Communication_Sciences_and_Disorder	57	##
8 Economics_and_Education	58	##
9 Linguistic	59	##
O International_and_Comparative_Education	60	##
1 Learning_Analytic	61	##
2 Motor_Learning_and_Contro	62	##
3 Creative_Technologie	63	##
4 Behavior_Analys:	64	##
5 Psycholog	65	##
6 Art_Education	66	##
7 Nutrition	67	##
<pre>8 Design_and_Development_of_Digital_Game</pre>	68	##
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Dance_Education	1	##
	2	##
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Early_Childhood_Special_Education	5	##
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##		History
	40	Education_Technology
##		Music
	42 43	Health_Education Science_Education
	43	-
	45	Physiology
##		Instructional_Technology_and_Media Education_Policy
	47	cluster
	48	Leadership
	49	Design_and_Development_of_Digital_Games
	50	English_Education
	51	Kinesiology
	52	Sexuality_Women_and_Gender_in_Psychology
	53	Communication_Media_and_Learning_Technologies
##	54	Communication_Sciences_and_Disorders
	55	Diabetes_Education
	56	College_Advising
##	57	School_Principals
##	58	Change_Leadership
##	59	Measurement_Evaluation_and_Statistics
##	60	Linguistics
##	61	Sociology
##	62	Philosophy
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##	64	Curriculum_and_Teaching
##	65	Learning_Analytics
		Education_Leadership
##	66	Social_Studies
##	67	Adult_Education
##	68	Psychology PC22
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##	1	Movement_Science
##	2	English_Education
##	3	Early_Childhood_Special_Education
##	4	School_Principals
##	5	Sociology
	6	Diabetes_Education
##	7	School_Psychology
##	8	Private_School_Leadership
##	9	Counseling_Psychology
##	10	Nutrition
##	11	Early_Childhood_Education
##	12	Education_Policy
##	13	Politics
##	14	Psychological_Counseling
##	15	Art_Education
##	16	Reading
##	17	Science_Education
##	18	Curriculum_and_Teaching
##	19	${\tt Instructional_Technology_and_Media}$
##	20	Social_Organizational_Psychology
##	21	SexualityWomen_and_Gender_in_Psychology
##	22	Behavior_Analysis
##	23	Bilingual_Bicultural_Education

	24	Teaching_English
	25	Physiology
##	26	Deaf_and_Hard_of_Hearing
##	27	Cognitive_Science
##	28	Social_Studies
##	29	Physical_Education
##	30	Literacy
##	31	Music
##	32	Education_Technology
##	33	Health_Education
##	34	Nursing
##	35	Spirituality_Mind_Body
##	36	Linguistics
##	37	Developmental_Psychology
##	38	Arts_Administration
##	39	<pre>Intellectual_Disability_Autism</pre>
	40	Economics_and_Education
##		Psychology
	42	Higher_and_Postsecondary_Education
	43	${\tt Cooperation_and_Conflict_Resolution}$
##	44	Inclusive_Education
##	45	Dance_Education
##	46	Neuroscience
##	47	International_and_Comparative_Education
##	48	Gifted_Education
##	49	MeasurementEvaluation_and_Statistics
##	50	Adult_Education
##	51	Philosophy
##	52	Urban_Education
##	53	History
##	54	<pre>Design_and_Development_of_Digital_Games</pre>
##	55	Creative_Technologies
##	56	College_Advising
##	57	cluster
##	58	Communication_Media_and_Learning_Technologies
##	59	Kinesiology
##	60	Mathematics
##	61	Clinical_Psychology
##	62	Anthropology
##	63	Communication_Sciences_and_Disorders
##	64	Motor_Learning_and_Control
##	65	Learning_Analytics
##	66	Education_Leadership
##	67	Leadership
##	68	Change_Leadership
##		PC23
##	1	Literacy
##	2	Psychology
##	3	Curriculum_and_Teaching
	4	Inclusive_Education
	5	Design_and_Development_of_Digital_Games
	6	Philosophy
##	7	Music
##		Politics
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##	9	Leadership
##	10	Linguistics
##	11	Diabetes_Education
##	12	Deaf_and_Hard_of_Hearing
##	13	${\tt Cooperation_and_Conflict_Resolution}$
##	14	Private_School_Leadership
##	15	Spirituality_Mind_Body
##	16	Urban_Education
##	17	English_Education
##	18	Change_Leadership
##	19	MeasurementEvaluation_and_Statistics
##	20	Motor_Learning_and_Control
##	21	Arts_Administration
##	22	Gifted_Education
##	23	School_Psychology
##	24	<pre>Intellectual_Disability_Autism</pre>
##	25	Counseling_Psychology
##	26	Creative_Technologies
##	27	cluster
##	28	Movement_Science
##	29	Bilingual_Bicultural_Education
##	30	Economics_and_Education
##	31	Education_Leadership
##	32	Kinesiology
##	33	Communication_Sciences_and_Disorders
##	34	Education_Policy
##	35	Instructional_Technology_and_Media
##	36	Developmental_Psychology
##	37	Early_Childhood_Education
##	38	Nutrition
##	39	Nursing
##	40	Mathematics
##	41	Communication_Media_and_Learning_Technologies
	42	Teaching_English
##	43	Clinical_Psychology
	44	Social_Studies
##	45	College_Advising
	46	Dance_Education
	47	Sociology
	48	Education_Technology
	49	Psychological_Counseling
	50	Science_Education
	51	Physical_Education
	52	Early_Childhood_Special_Education
	53	Neuroscience
	54	Cognitive_Science
	55	International_and_Comparative_Education
	56	Adult_Education
	57	Sexuality_Women_and_Gender_in_Psychology
	58	Reading
	59	Social_Organizational_Psychology
	60	Anthropology
	61	Higher_and_Postsecondary_Education
	62	History
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##	63	Art_Education
##	64	Learning_Analytics
##	65	Health_Education
##	66	Physiology
##	67	Behavior_Analysis
##	68	School_Principals
##		PC24
##	1	College_Advising
##	2	Bilingual_Bicultural_Education
##	3	Sociology
##	4	Linguistics
##	5	Learning_Analytics
##	6	Politics
##	7	Social_Studies
##	8	Arts_Administration
##	9	SexualityWomen_and_Gender_in_Psychology
##	10	Physiology
##	11	Early_Childhood_Education
##	12	Cognitive_Science
##	13	Anthropology
##	14	Nutrition
##	15	Private_School_Leadership
##	16	International_and_Comparative_Education
##	17	Spirituality_Mind_Body
##	18	Communication_Sciences_and_Disorders
##	19	English_Education
##	20	Education_Policy
##	21	Communication_Media_and_Learning_Technologies
##	22	Social_Organizational_Psychology
##	23	Gifted_Education
##	24	Adult_Education
##		
	25	Urban Education
##		Urban_Education Instructional Technology and Media
## ##	26	${\tt Instructional_Technology_and_Media}$
	26 27	Instructional_Technology_and_Media Developmental_Psychology
## ##	26 27	Instructional_Technology_and_Media Developmental_Psychology Dance_Education
## ## ##	26 27 28	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership
## ## ## ##	26 27 28 29	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education
## ## ## ##	26 27 28 29 30 31	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games
## ## ## ## ##	26 27 28 29 30 31 32	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology
## ## ## ## ## ##	26 27 28 29 30 31 32 33	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing
## ## ## ## ## ##	26 27 28 29 30 31 32 33 34	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology
## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching
## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science
## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36 37	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music
## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36 37 38	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy
## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36 37 38	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education
## ## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing
## ## ## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing Higher_and_Postsecondary_Education
######################################	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing Higher_and_Postsecondary_Education Creative_Technologies
######################################	26 27 28 29 30 31 32 33 34 35 36 37 38 40 41 42 43	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing Higher_and_Postsecondary_Education Creative_Technologies Mathematics
######################################	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing Higher_and_Postsecondary_Education Creative_Technologies Mathematics Behavior_Analysis
## ## ## ## ## ## ## ## ## ## ## ## ##	26 27 28 29 30 31 32 33 34 35 36 37 38 40 41 42 43 44 45	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing Higher_and_Postsecondary_Education Creative_Technologies Mathematics Behavior_Analysis Economics_and_Education
######################################	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Instructional_Technology_and_Media Developmental_Psychology Dance_Education Education_Leadership Art_Education Design_and_Development_of_Digital_Games Counseling_Psychology Deaf_and_Hard_of_Hearing Clinical_Psychology Curriculum_and_Teaching Movement_Science Music Literacy Early_Childhood_Special_Education Nursing Higher_and_Postsecondary_Education Creative_Technologies Mathematics Behavior_Analysis

##	48	Psychological_Counseling
##	49	Cooperation_and_Conflict_Resolution
##	50	History
##	51	Change_Leadership
##	52	Diabetes_Education
##	53	Kinesiology
##	54	Inclusive_Education
##	55	MeasurementEvaluation_and_Statistics
##	56	Science_Education
##	57	Intellectual_Disability_Autism
##	58	School_Psychology
##	59	Psychology
##	60	Health_Education
##	61	Teaching_English
##	62	Motor_Learning_and_Control
##	63	Neuroscience
##	64	Education_Technology
	65	Physical_Education
	66	Philosophy
##	67	Reading
##		School_Principals
##		PC25
##	1	Creative_Technologies
##		Reading
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##		Kinesiology
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##	6	Clinical Psychology
## ##		Clinical_Psychology Design and Development of Digital Games
##	7	Design_and_Development_of_Digital_Games
## ##	7	Design_and_Development_of_Digital_Games Diabetes_Education
## ## ##	7 8 9	Design_and_Development_of_Digital_Games Diabetes_Education Communication_Media_and_Learning_Technologies
## ## ## ##	7 8 9 10	Design_and_Development_of_Digital_Games
## ## ## ##	7 8 9 10 11	Design_and_Development_of_Digital_Games
## ## ## ## ##	7 8 9 10 11 12	Design_and_Development_of_Digital_Games Diabetes_Education Communication_Media_and_Learning_Technologies Art_Education Nutrition Curriculum_and_Teaching
## ## ## ## ## ##	7 8 9 10 11 12 13	Design_and_Development_of_Digital_Games
## ## ## ## ## ##	7 8 9 10 11 12 13 14	Design_and_Development_of_Digital_Games Diabetes_Education Communication_Media_and_Learning_Technologies Art_Education Nutrition Curriculum_and_Teaching History Arts_Administration
## ## ## ## ## ##	7 8 9 10 11 12 13 14 15	Design_and_Development_of_Digital_Games Diabetes_Education Communication_Media_and_Learning_Technologies Art_Education Nutrition Curriculum_and_Teaching History Arts_Administration Motor_Learning_and_Control
## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17 18	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17 18 19 20	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Design_and_Development_of_Digital_Games Diabetes_Education Communication_Media_and_Learning_Technologies Art_Education Nutrition Curriculum_and_Teaching History Arts_Administration Motor_Learning_and_Control Neuroscience Anthropology Sociology Literacy International_and_Comparative_Education Inclusive_Education
## ## ## ## ## ## ## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Design_and_Development_of_Digital_Games
## ## ## ## ## ## ## ## ## ##	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Design_and_Development_of_Digital_Games
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############################	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Design_and_Development_of_Digital_Games
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##	33	Deaf_and_Hard_of_Hearing
##	34	${\tt Intellectual_Disability_Autism}$
##	35	<pre>Instructional_Technology_and_Media</pre>
##	36	Music
##	37	Early_Childhood_Special_Education
##	38	Urban_Education
##	39	Sexuality_Women_and_Gender_in_Psychology
##		Leadership
##		Health_Education
##		Learning_Analytics
##		Physical_Education
	44	Early_Childhood_Education
##		Psychology
##		Psychological_Counseling
	47	Cognitive_Science
##		Politics
##		Communication_Sciences_and_Disorders
##	50	Education_Technology
##		College_Advising
	52	Gifted_Education
	53	Movement_Science
	54	English_Education
##		Philosophy
##		School_Principals
##		Education_Leadership
	58	Education_Policy
	59	School_Psychology
	60	Social_Studies
	61	Teaching_English
##		Economics_and_Education
##		Nursing
##		Counseling_Psychology
##		Behavior_Analysis
##	66	Spirituality_Mind_Body
##	67	MeasurementEvaluation_and_Statistics
##	68	Linguistics
##	4	PC26
##	1	Nursing
##		Movement_Science
##		Psychology
##		Higher_and_Postsecondary_Education
##	-	Teaching_English
	6	Neuroscience
##	7	School_Principals
##	8	Nutrition
##	9	Music
##	10	Arts_Administration
##	11	Communication_Sciences_and_Disorders
##	12	Motor_Learning_and_Control
##	13	Early_Childhood_Education
##	14	Creative_Technologies
##	15	Kinesiology
##	16	Art_Education
##	17	Gifted_Education

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##	18	Sexuality_Women_and_Gender_in_Psychology
##	19	Education_Policy
##	20	Curriculum_and_Teaching
##	21	Linguistics
##	22	College_Advising
##	23	Literacy
##	24	MeasurementEvaluation_and_Statistics
##	25	Inclusive_Education
##	26	English_Education
##	27	Cooperation_and_Conflict_Resolution
##	28	Mathematics
##	29	Cognitive_Science
##	30	International_and_Comparative_Education
##	31	cluster
##	32	Politics
##	33	Psychological_Counseling
##	34	Urban_Education
##	35	Clinical_Psychology
##	36	Leadership
##	37	Intellectual_Disability_Autism
##	38	Education_Technology
##	39	Change_Leadership
##	40	Science_Education
##	41	Deaf_and_Hard_of_Hearing
##	42	Physical_Education
##	43	Adult_Education
##	44	Anthropology
##	45	Physiology
##	46	Social_Organizational_Psychology
##	47	Philosophy
##	48	Education_Leadership
##	49	Reading
##	50	Developmental_Psychology
##	51	<pre>Design_and_Development_of_Digital_Games</pre>
##	52	Early_Childhood_Special_Education
##	53	Bilingual_Bicultural_Education
##	54	Spirituality_Mind_Body
##	55	School_Psychology
##	56	History
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##	59	<pre>Instructional_Technology_and_Media</pre>
##	60	Counseling_Psychology
##	61	Social_Studies
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##	64	Diabetes_Education
	65	Behavior_Analysis
##	66	Dance_Education
##	67	Economics_and_Education
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##		PC27
##	1	Motor_Learning_and_Control
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##	3	Arts_Administration
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##	11	Instructional_Technology_and_Media
##	12	SexualityWomen_and_Gender_in_Psychology
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##	22	Communication_Sciences_and_Disorders
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##	25	Diabetes_Education
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##	39	Design_and_Development_of_Digital_Games
	40	International_and_Comparative_Education
##		Science_Education
	42	Cooperation_and_Conflict_Resolution
##		English_Education
	44	Measurement_Evaluation_and_Statistics
##		Cognitive_Science
##		Deaf_and_Hard_of_Hearing
##		Health_Education
##		Economics_and_Education
##		Philosophy
##		Sociology
##		cluster
	52	Reading
	53	Literacy
	54	School_Psychology
##		Psychology
##	56	Politics

##	57	Bilingual_Bicultural_Education
##	58	Education_Technology
##	59	College_Advising
##	60	Neuroscience
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##	62	Physical_Education
##	63	Movement_Science
##	64	Social_Studies
##	65	Physiology
##	66	Teaching_English
##	67	Leadership
##	68	Education_Policy
##		PC28
##	1	Spirituality_Mind_Body
##	2	Cooperation_and_Conflict_Resolution
##	3	Physiology
##	4	Physical_Education
##	5	Teaching_English
##	6	Psychology
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##	10	MeasurementEvaluation_and_Statistics
##	11	Anthropology
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##	16	<pre>Design_and_Development_of_Digital_Games</pre>
##	17	Creative_Technologies
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##	20	Education_Policy
##	21	Change_Leadership
##	22	Social_Organizational_Psychology
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##	31	<pre>Higher_and_Postsecondary_Education</pre>
##	32	Dance_Education
##	33	Movement_Science
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##	40	Clinical_Psychology
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##	44	Motor_Learning_and_Control
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##	51	SexualityWomen_and_Gender_in_Psychology
##	52	${\tt Early_Childhood_Special_Education}$
##	53	Gifted_Education
##	54	<pre>Instructional_Technology_and_Media</pre>
##	55	Social_Studies
##	56	Education_Leadership
##	57	Developmental_Psychology
##	58	Behavior_Analysis
##	59	<pre>Intellectual_Disability_Autism</pre>
##	60	cluster
##	61	Early_Childhood_Education
##	62	Science_Education
##	63	Learning_Analytics
##	64	Neuroscience
##	65	Music
##	66	Philosophy
##	67	Deaf_and_Hard_of_Hearing
## ##	68	Economics_and_Education PC29
##	1	MeasurementEvaluation_and_Statistics
##	2	History
##	3	Linguistics
##	4	Kinesiology
##	5	Cooperation_and_Conflict_Resolution
##	6	Education_Technology
##	7	Inclusive_Education
##	8	Urban_Education
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##	10	Reading
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##	13	Literacy
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##	15	Education_Policy
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	34	Early_Childhood_Special_Education
	35	Psychological_Counseling
##	36	Developmental_Psychology
##	37	Cognitive_Science
##	38	Economics_and_Education
##	39	Music
	40	Change_Leadership
##		Physiology
	42	Communication_Sciences_and_Disorders
	43	College_Advising
	44	Art_Education
##	45	School_Psychology
##	46	Behavior_Analysis
##	47	Spirituality_Mind_Body
##	48	Adult_Education
##	49	Deaf_and_Hard_of_Hearing
##	50	Learning_Analytics
##	51	Nutrition
##	52	Physical_Education
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##	54	SexualityWomen_and_Gender_in_Psychology
##	55	English_Education
##	56	Philosophy
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##	58	Leadership
##	59	Movement_Science
##	60	Counseling_Psychology
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##	63	Creative_Technologies
##	64	Health_Education
##	65	Science_Education
##	66	Nursing
##	67	<pre>Higher_and_Postsecondary_Education</pre>
##	68	<pre>Instructional_Technology_and_Media</pre>
##		PC30
##	1	Nutrition
##	2	Physical_Education
##	3	<pre>Instructional_Technology_and_Media</pre>
##	4	Communication_Media_and_Learning_Technologies
##	5	Higher_and_Postsecondary_Education
##	6	Early_Childhood_Education
##	7	Arts_Administration
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##	22	Developmental_Psychology
##	23	Music
##	24	${\tt Intellectual_Disability_Autism}$
##	25	Health_Education
##	26	Reading
##	27	Social_Studies
##	28	Teaching_English
##	29	Movement_Science
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##	31	Kinesiology
##	32	Leadership
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##	39	Early_Childhood_Special_Education
##	40	Cooperation_and_Conflict_Resolution
##	41	College_Advising
##	42	Inclusive_Education
##	43	Diabetes_Education
##	44	Clinical_Psychology
##	45	Education_Policy
##	46	Dance_Education
##	47	Psychological_Counseling
##	48	Communication_Sciences_and_Disorders
##	49	Cognitive_Science
##	50	Motor_Learning_and_Control
##	51	Deaf_and_Hard_of_Hearing
##	52	School_Principals
##	53	Politics
##	54	Science_Education
##	55	Literacy
##	56	Spirituality_Mind_Body
##	57	Anthropology
##	58	Adult_Education
##	59	- Psychology
##	60	Sociology
##	61	Design_and_Development_of_Digital_Games
##	62	Private_School_Leadership
##	63	Education_Technology
##	64	Philosophy
##	65	Physiology
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##	66	Curriculum_and_Teaching
##	67	Linguistics
##	68	Economics_and_Education
##		PC31
##	1	Art_Education
##	2	Early_Childhood_Special_Education
##	3	Counseling_Psychology
##	4	Economics_and_Education
##	5	Anthropology
##	6	Cooperation_and_Conflict_Resolution
##	7	Communication_Media_and_Learning_Technologies
##	8	Clinical_Psychology
##	9	Cognitive_Science
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##	11	Deaf_and_Hard_of_Hearing
##	12 13	Linguistics
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##	16	Creative_Technologies
##	17	Science_Education
##	18	Leadership
##	19	School_Principals
##		Nursing
	21	College_Advising
	22	Physical_Education
	23	Intellectual_Disability_Autism
##		Literacy
##		Movement_Science
##		Motor_Learning_and_Control
##	27	MeasurementEvaluation_and_Statistics
##	28	Social_Organizational_Psychology
##	29	Higher_and_Postsecondary_Education
##	30	Behavior_Analysis
##	31	Dance_Education
##	32	Urban_Education
##	33	Spirituality_Mind_Body
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##	36	Education_Leadership
##	37	Diabetes_Education
##	38	${\tt Instructional_Technology_and_Media}$
##	39	Nutrition
##	40	Politics
##		$Bilingual_Bicultural_Education$
	42	Health_Education
	43	Education_Policy
	44	Change_Leadership
	45	Arts_Administration
	46	Psychology
	47	Curriculum_and_Teaching
	48	Kinesiology
	49	Inclusive_Education
##	50	Reading

##	51	Private_School_Leadership
##	52	Social_Studies
##	53	Learning_Analytics
##	54	Developmental_Psychology
##	55	International_and_Comparative_Education
##	56	History
##	57	Psychological_Counseling
##	58	Teaching_English
##	59	Sociology
##	60	Gifted Education
##	61	Design_and_Development_of_Digital_Games
##	62	Adult_Education
##	63	Neuroscience
	64	Music
##	65	Communication_Sciences_and_Disorders
##	66	English_Education
##	67	Mathematics
##	68	Education_Technology
##	00	PC32
##	1	Spirituality_Mind_Body
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##	3	Clinical_Psychology
##		Health_Education
	-	Anthropology
##	5	Physiology
##		Economics_and_Education
##	7	Developmental_Psychology
##	8	Counseling_Psychology
##	9	Nursing
##	10	History
##	11	Urban_Education
##	12	Neuroscience
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##	14	Social_Organizational_Psychology
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##	16	Behavior_Analysis
##	17	Change_Leadership
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##		${\tt Higher_and_Postsecondary_Education}$
##	23	${\tt Communication_Media_and_Learning_Technologies}$
##	24	Cooperation_and_Conflict_Resolution
##	25	Bilingual_Bicultural_Education
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##	28	School_Psychology
##	29	Sociology
##		Communication_Sciences_and_Disorders
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##		International_and_Comparative_Education
##		Music
##		Early_Childhood_Special_Education
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##	36	Education_Policy
##	37	Psychological_Counseling
##	38	Curriculum_and_Teaching
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##	41	Psychology
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##	43	Science_Education
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	48	Gifted_Education
	49	Private_School_Leadership
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##	51	${\tt Intellectual_Disability_Autism}$
##	52	Education_Leadership
##	53	Art_Education
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##	58	Literacy
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##	63	Design_and_Development_of_Digital_Games
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##	1	Change_Leadership
##	2	Health_Education
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##	4	Gifted_Education
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##	26	Cognitive_Science
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##	30	Economics_and_Education
##	31	Movement_Science
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##	36	Deaf_and_Hard_of_Hearing
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##	54	Social_Studies
##	55	Adult_Education
##	56	Counseling_Psychology
##	57	School_Psychology
##	58	Education_Leadership
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##		Art_Education
##	62	Curriculum_and_Teaching
##	63	Social_Organizational_Psychology
##	64	Developmental_Psychology
##	65	School_Principals
##	66	Urban_Education
##	67	Early_Childhood_Special_Education
##	68	Psychological_Counseling
##		PC34
##	1	Adult_Education
##	2	Developmental_Psychology
##	3	Dance_Education
##	4	Philosophy
##	5	SexualityWomen_and_Gender_in_Psychology

## 6	6	Politics
## 7	7	History
## 8		Motor_Learning_and_Control
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## 1		Change_Leadership
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	38	Learning_Analytics
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## 67	Education_Leadership
## 68	Nutrition
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## 1	Teaching_English
## 2	Higher_and_Postsecondary_Education
## 3	Private_School_Leadership
## 4	SexualityWomen_and_Gender_in_Psychology
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## 7	Reading
## 8	Politics
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## 12	Early_Childhood_Special_Education
## 13	Clinical_Psychology
## 14	Music
## 15	Adult_Education
## 16	Sociology
## 17	Nutrition
## 18	Education_Technology
## 19	Mathematics
## 20	Health_Education
## 21	Education_Leadership
## 22	Education_Policy
## 23	School_Psychology
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## 25	School_Principals
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## 32	Counseling_Psychology
## 33	Social_Studies
## 34	Inclusive_Education
## 35	Communication_Sciences_and_Disorders
## 36	Intellectual_Disability_Autism
## 37	Dance_Education
## 38	Learning_Analytics
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## 6	3 College_Advising
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## 6	5 Movement_Science
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## 6	8 4 = 4 4 4 4 = 4 4 4 4 4
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##	PC36
## 1	School_Principals
## 2	Kinesiology
## 3	International_and_Comparative_Education
## 4	Private_School_Leadership
## 5	Health_Education
## 6	Arts_Administration
## 7	Education_Technology
## 8	Behavior_Analysis
## 9	Intellectual_Disability_Autism
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## 2	9 Social_Organizational_Psychology

##	30	Deaf_and_Hard_of_Hearing
##	31	<pre>Design_and_Development_of_Digital_Games</pre>
##	32	Gifted_Education
##	33	Nursing
##	34	Communication_Media_and_Learning_Technologies
##	35	Education_Policy
##	36	SexualityWomen_and_Gender_in_Psychology
	37	Creative_Technologies
	38	Bilingual_Bicultural_Education
##	39	
		Psychological_Counseling
	40	Developmental_Psychology
	41	Teaching_English
	42	MeasurementEvaluation_and_Statistics
##	43	Spirituality_Mind_Body
##	44	Literacy
##	45	College_Advising
##	46	Reading
##	47	Education_Leadership
##	48	Early_Childhood_Education
##	49	Sociology
##	50	Counseling_Psychology
##	51	Cognitive_Science
##	52	Inclusive_Education
##		
	53	Linguistics
##	54	Curriculum_and_Teaching
##	55	Change_Leadership
##	56	Motor_Learning_and_Control
##	57	Psychology
##	58	Urban_Education
##	59	cluster
##	60	Clinical_Psychology
##	61	School_Psychology
##	62	English_Education
##	63	Diabetes_Education
##	64	Politics
##	65	Social_Studies
	66	Cooperation_and_Conflict_Resolution
##		Instructional_Technology_and_Media
##	68	History
##		PC37
##	1	Music
##	2	School_Psychology
##	3	Change_Leadership
##	4	Physiology
##	5	Sociology
##	6	Diabetes_Education
##	7	Education_Policy
##	8	School_Principals
##	9	Economics_and_Education
##	10	Gifted_Education
##	11	Intellectual_Disability_Autism
##	12	Early_Childhood_Special_Education
##	13	Measurement_Evaluation_and_Statistics
##	14	Politics
##	14	POLITICS

##	15	Adult_Education
##	16	Curriculum_and_Teaching
##	17	Physical_Education
##	18	Movement_Science
##	19	cluster
##	20	Science_Education
##	21	Anthropology
##	22	Developmental_Psychology
##	23	History
##	24	Spirituality_Mind_Body
##	25	Mathematics
##	26	<pre>Instructional_Technology_and_Media</pre>
##	27	Nursing
##	28	Behavior_Analysis
##	29	Communication_Sciences_and_Disorders
##	30	Health_Education
##	31	Psychological_Counseling
##	32	Neuroscience
##		Arts_Administration
##	34	 Creative_Technologies
##		International_and_Comparative_Education
##		Urban_Education
##		Design_and_Development_of_Digital_Games
##		Education_Leadership
##		Early_Childhood_Education
##		Motor_Learning_and_Control
##		Art_Education
##		Philosophy
##		College_Advising
##		Learning_Analytics
##		Bilingual_Bicultural_Education
##		Nutrition
##		Sexuality_Women_and_Gender_in_Psychology
##		Social_Studies
##		Clinical_Psychology
##		English_Education
##		Kinesiology
##		Social_Organizational_Psychology
##		Education_Technology
##		Teaching_English
##		Literacy
##		Private_School_Leadership
##		Cognitive_Science
##		Linguistics
##		Counseling_Psychology
##		Reading
##		Higher_and_Postsecondary_Education
	62	Inclusive_Education
	63	Leadership
	64	Deaf_and_Hard_of_Hearing
##		Dear_and_nard_or_nearing Dance_Education
	66	Communication_Media_and_Learning_Technologies
	67	Psychology
##		Cooperation_and_Conflict_Resolution
##	00	cooperation_and_confirec_resolution

##		PC38
##	1	Social_Studies
##	2	Education_Policy
##	3	Urban_Education
##	4	Sociology
##	5	Adult_Education
##	6	Gifted_Education
##	7	College_Advising
##	8	Behavior_Analysis
##	9	Curriculum_and_Teaching
##	10	MeasurementEvaluation_and_Statistics
##	11	Arts_Administration
##	12	Creative_Technologies
##	13	Developmental_Psychology
##	14	Linguistics
##	15	Social_Organizational_Psychology
##	16	Inclusive_Education
##	17	<pre>Higher_and_Postsecondary_Education</pre>
##	18	Education_Leadership
##	19	Philosophy
##	20	Movement_Science
##	21	Counseling_Psychology
##	22	Health_Education
##	23	Psychological_Counseling
##	24	History
##	25	Politics
##	26	Diabetes_Education
##	27	Motor_Learning_and_Control
##	28	School_Principals
##	29	Reading
##	30	English_Education
##	31	Dance_Education
##	32	Art_Education
##	33	Nutrition
##	34	Science_Education
##	35	Early_Childhood_Education
##	36	Education_Technology
##	37	School_Psychology
##	38	cluster
##		Design_and_Development_of_Digital_Games
##		Change_Leadership
##		Bilingual_Bicultural_Education
##		Anthropology
##		Communication_Sciences_and_Disorders
##		Clinical_Psychology
##		Sexuality_Women_and_Gender_in_Psychology
##		Cognitive_Science
##		Spirituality_Mind_Body
##		Learning_Analytics
##		Leadership
##		Physical_Education
##		Economics_and_Education
##		Music
##		Nursing
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##	54	Kinesiology
##	55	Early_Childhood_Special_Education
##	56	Deaf_and_Hard_of_Hearing
##	57	Neuroscience
##	58	Cooperation_and_Conflict_Resolution
##	59	<pre>Intellectual_Disability_Autism</pre>
##	60	Literacy
##	61	Private_School_Leadership
##	62	Mathematics
##	63	Communication_Media_and_Learning_Technologies
##	64	Instructional_Technology_and_Media
##	65	Physiology
##	66	Psychology
##	67	International_and_Comparative_Education
##	68	Teaching_English
##		PC39
##	1	School_Psychology
##	2	Diabetes_Education
##	3	Behavior_Analysis
##	4	Cognitive_Science
##	5	English_Education
##	6	College_Advising
##	7	Motor_Learning_and_Control
##	8	Economics_and_Education
##	9	Politics
##	10	History
##	11	Psychology
##	12	Philosophy
##	13	Instructional_Technology_and_Media
##	14	Music
##	15	School_Principals
##	16	Kinesiology
##	17	Neuroscience
##	18	Bilingual_Bicultural_Education
##	19	Arts_Administration
##	20	Sociology
##	21	Psychological_Counseling
##	22	Higher_and_Postsecondary_Education
	23	Physiology
	24	Communication_Sciences_and_Disorders
##	25	Urban Education
	26	Education_Leadership
	27	Education_Policy
	28	Education_Technology
##	29	Design_and_Development_of_Digital_Games
##	30	Mathematics
##	31	Private_School_Leadership
##	32	Deaf_and_Hard_of_Hearing
##	33	Literacy
##	34	Teaching_English
##	35	Inclusive_Education
	36	Nutrition
	37	Creative_Technologies
	38	Sexuality_Women_and_Gender_in_Psychology
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##	39	${\tt Early_Childhood_Education}$
##	40	Health_Education
##	41	Social_Organizational_Psychology
##	42	${\tt Communication_Media_and_Learning_Technologies}$
##	43	Clinical_Psychology
##	44	Movement_Science
##	45	$International_and_Comparative_Education$
##	46	Gifted_Education
##	47	${\tt Intellectual_Disability_Autism}$
##	48	Leadership
##	49	Spirituality_Mind_Body
##	50	Nursing
##	51	Social_Studies
##	52	Counseling_Psychology
##	53	Developmental_Psychology
##	54	Dance_Education
##	55	Change_Leadership
##	56	Early_Childhood_Special_Education
##	57	${\tt Cooperation_and_Conflict_Resolution}$
##	58	Physical_Education
##	59	cluster
##	60	Linguistics
##	61	Art_Education
##	62	Anthropology
##	63	MeasurementEvaluation_and_Statistics
##	64	Adult_Education
##	65	Science_Education
##	66	Reading
##	67	Learning_Analytics
##	68	Curriculum_and_Teaching
##		PC40
##	1	Learning_Analytics
##	2	Art_Education
##	3	Mathematics
##	4	<pre>Instructional_Technology_and_Media</pre>
##	5	Movement_Science
##	6	Social_Studies
##	7	${\tt Early_Childhood_Education}$
##	8	Sociology
##	9	School_Principals
##	10	Communication_Sciences_and_Disorders
##	11	Intellectual_Disability_Autism
##	12	Nursing
##	13	School_Psychology
##	14	Education_Policy
##	15	Literacy
##	16	Higher_and_Postsecondary_Education
##	17	Economics_and_Education
##	18	Nutrition
##	19	SexualityWomen_and_Gender_in_Psychology
##	20	Clinical_Psychology
##	21	Diabetes_Education
##	22	Neuroscience
##	23	Inclusive_Education

##	24	cluster
##	25	Science_Education
##	26	Philosophy
##	27	Psychological_Counseling
##	28	Urban_Education
##	29	${\tt Design_and_Development_of_Digital_Games}$
##	30	Change_Leadership
##	31	Dance_Education
##	32	Reading
##	33	Spirituality_Mind_Body
##	34	Kinesiology
##	35	Motor_Learning_and_Control
##	36	Physiology
##	37	Health_Education
##	38	Cognitive_Science
##	39	Social_Organizational_Psychology
##	40	Creative_Technologies
##	41	Education_Technology
##	42	Private_School_Leadership
##	43	MeasurementEvaluation_and_Statistics
##	44	Arts_Administration
##	45	Leadership
##	46	${\tt Bilingual_Bicultural_Education}$
##	47	Behavior_Analysis
##	48	Developmental_Psychology
##	49	Curriculum_and_Teaching
##	50	Music
##	51	Education_Leadership
##	52	${\tt Cooperation_and_Conflict_Resolution}$
##	53	History
##	54	<pre>Deaf_and_Hard_of_Hearing</pre>
##	55	$International_and_Comparative_Education$
##	56	Politics
##	57	Physical_Education
##	58	Adult_Education
##	59	Counseling_Psychology
##	60	College_Advising
##	61	Linguistics
##	62	Gifted_Education
##	63	Anthropology
##	64	Psychology
##	65	Early_Childhood_Special_Education
##	66	English_Education
##	67	Teaching_English
##	68	${\tt Communication_Media_and_Learning_Technologies}$
##		PC41
##	1	Design_and_Development_of_Digital_Games
##		Art_Education
##	-	Gifted_Education
##	_	Behavior_Analysis
##		Early_Childhood_Education
##		Education_Policy
##	7	Neuroscience
##	8	Developmental_Psychology

## 9	Movement_Science
## 10	Reading
## 11	Physical_Education
## 12	Linguistics
## 13	<pre>Intellectual_Disability_Autism</pre>
## 14	College_Advising
## 15	SexualityWomen_and_Gender_in_Psychology
## 16	School_Principals
## 17	${\tt Communication_Media_and_Learning_Technologies}$
## 18	Philosophy
## 19	Counseling_Psychology
## 20	Communication_Sciences_and_Disorders
## 21	Psychology
## 22	School_Psychology
## 23	Social_Studies
## 24	<pre>Instructional_Technology_and_Media</pre>
## 25	Diabetes_Education
## 26	cluster
## 27	Economics_and_Education
## 28	Motor_Learning_and_Control
## 29	Curriculum_and_Teaching
## 30	Urban_Education
## 31	Higher_and_Postsecondary_Education
## 32	Kinesiology
## 33	Deaf_and_Hard_of_Hearing
## 34	Anthropology
## 35	International_and_Comparative_Education
## 36 ## 37	Science_Education
## 38	Health_Education Inclusive_Education
## 39	Education_Technology
## 40	Adult_Education
## 41	Physiology
## 42	Private_School_Leadership
## 43	Early_Childhood_Special_Education
## 44	Literacy
## 45	Politics
## 46	Social_Organizational_Psychology
## 47	English_Education
## 48	Sociology
## 49	Nursing
## 50	Spirituality_Mind_Body
## 51	Clinical_Psychology
## 52	Learning_Analytics
## 53	Leadership
## 54	Teaching_English
## 55	Change_Leadership
## 56	Arts_Administration
## 57	Education_Leadership
## 58	History
## 59	${\tt Cooperation_and_Conflict_Resolution}$
## 60	Music
## 61	Psychological_Counseling
## 62	Creative_Technologies

##	63	Mathematics
##	64	Cognitive_Science
##	65	Nutrition
##	66	Dance_Education
##	67	MeasurementEvaluation_and_Statistics
##	68	Bilingual_Bicultural_Education
##		PC42
##	1	Education_Technology
##	2	Education_Leadership
##	3	Early_Childhood_Special_Education
##	4	Gifted_Education
##	5	Creative_Technologies
##	6	Motor_Learning_and_Control
##	7	Bilingual_Bicultural_Education
##	8	Private_School_Leadership
##	9	<pre>Higher_and_Postsecondary_Education</pre>
##	10	<pre>Design_and_Development_of_Digital_Games</pre>
##	11	Cognitive_Science
##	12	Social_Studies
##	13	Learning_Analytics
##	14	Communication_Sciences_and_Disorders
##	15	Psychological_Counseling
##	16	Adult_Education
##	17	Curriculum_and_Teaching
##	18	${\tt Measurement_Evaluation_and_Statistics}$
##	19	Social_Organizational_Psychology
##	20	History
##	21	SexualityWomen_and_Gender_in_Psychology
##	22	Developmental_Psychology
##	23	Dance_Education
##	24	Kinesiology
##	25	Literacy
##	26	$Instructional_Technology_and_Media$
##	27	Diabetes_Education
		Deaf_and_Hard_of_Hearing
##	29	Economics_and_Education
##	30	Early_Childhood_Education
##	31	Sociology
##	32	Politics
##	33	Music
##	34	Urban_Education
##	35	Arts_Administration
##	36	${\tt Cooperation_and_Conflict_Resolution}$
##	37	Physiology
##	38	College_Advising
##	39	School_Psychology
##	40	Nutrition
##	41	Clinical_Psychology
##	42	${\tt International_and_Comparative_Education}$
##	43	Counseling_Psychology
##	44	Anthropology
##	45	Neuroscience
##	46	Leadership
##	47	Mathematics

	48	English_Education
##	49	Art_Education
##	50	Health_Education
##	51	Inclusive_Education
##	52	Change_Leadership
##	53	<pre>Intellectual_Disability_Autism</pre>
##	54	${\tt Communication_Media_and_Learning_Technologies}$
##	55	Education_Policy
##	56	Teaching_English
##	57	School_Principals
##	58	Science_Education
##	59	Physical_Education
##	60	Reading
##	61	Philosophy
##	62	Nursing
##	63	Psychology
	64	Behavior_Analysis
	65	cluster
	66	Linguistics
	67	Movement_Science
	68	Spirituality_Mind_Body
##		PC43
##	1	Behavior_Analysis
	2	Developmental_Psychology
##	3	History
##	4	Motor_Learning_and_Control
##	5	College_Advising
##	6	Music
##	7	Art_Education
##	8	Cognitive_Science
##	9	Psychological_Counseling
##	10	Communication_Sciences_and_Disorders
##	11	Linguistics
##	12	Education_Leadership
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##	13	
	13 14	Clinical_Psychology
	14	Clinical_Psychology Instructional_Technology_and_Media
##	14 15	Clinical_Psychology Instructional_Technology_and_Media Teaching_English
## ##	14 15 16	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education
## ## ##	14 15 16 17	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education
## ## ## ##	14 15 16 17 18	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading
## ## ## ##	14 15 16 17 18 19	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology
## ## ## ## ##	14 15 16 17 18 19 20	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education
## ## ## ## ## ##	14 15 16 17 18 19 20 21	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals
## ## ## ## ## ##	14 15 16 17 18 19 20 21 22	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership
## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster
## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education
## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24 25	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body
## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24 25 26	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body Physical_Education
## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24 25 26 27	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body Physical_Education MeasurementEvaluation_and_Statistics
## ## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body Physical_Education Measurement_Evaluation_and_Statistics Economics_and_Education
## ## ## ## ## ## ## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body Physical_Education Measurement_Evaluation_and_Statistics Economics_and_Education Mathematics
######################################	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body Physical_Education Measurement_Evaluation_and_Statistics Economics_and_Education Mathematics Private_School_Leadership
## ## ## ## ## ## ## ## ## ## ## ## ##	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Clinical_Psychology Instructional_Technology_and_Media Teaching_English Bilingual_Bicultural_Education Science_Education Reading Counseling_Psychology Gifted_Education School_Principals Leadership cluster International_and_Comparative_Education Spirituality_Mind_Body Physical_Education Measurement_Evaluation_and_Statistics Economics_and_Education Mathematics

##	33	School_Psychology
##	34	Inclusive_Education
##	35	Arts_Administration
##	36	Sociology
##	37	Cooperation_and_Conflict_Resolution
##	38	Urban_Education
##	39	Movement_Science
##	40	Education_Policy
##	41	Social_Studies
##	42	Literacy
##	43	Deaf_and_Hard_of_Hearing
##	44	English_Education
##	45	Psychology
##	46	Education_Technology
##	47	Nutrition
##	48	Change_Leadership
##	49	Adult_Education
##	50	SexualityWomen_and_Gender_in_Psychology
##	51	Higher_and_Postsecondary_Education
##	52	Intellectual_Disability_Autism
	53	Health_Education
	54	Early_Childhood_Education
	55	Learning_Analytics
##	56	Dance_Education
##	57	Nursing
	58	Philosophy
	59	Creative_Technologies
##	60	Neuroscience
##	61	Politics
##	62	Physiology
##	63	Anthropology
##	64	Diabetes_Education
##	65	Design_and_Development_of_Digital_Games
##	66	Curriculum_and_Teaching
##	67	Kinesiology
##	68	Social_Organizational_Psychology
##		PC44
##	1	School_Principals
##		Bilingual_Bicultural_Education
##		Nursing
##		Learning_Analytics
##		School_Psychology
##		International_and_Comparative_Education
##	7	Communication_Sciences_and_Disorders
##	8	Urban_Education
##		Education_Technology
	10	Reading
##	11	Art_Education
	12	English_Education
	13	Early_Childhood_Education
	14	Cognitive_Science
##	15	Cognitive_Science Politics
##	16	Private_School_Leadership
	17	Filvate_School_LeaderShip Sociology
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##	18	Change_Leadership
##	19	Adult_Education
##	20	Education_Policy
##	21	Linguistics
##	22	Teaching_English
##		${\tt Communication_Media_and_Learning_Technologies}$
##	24	Philosophy
##	25	Neuroscience
##	26	Health_Education
##	27	Literacy
##	28	Developmental_Psychology
##	29	Kinesiology
##	30	Arts_Administration
##	31	Economics_and_Education
##	32	SexualityWomen_and_Gender_in_Psychology
##	33	Diabetes_Education
##	34	Psychological_Counseling
##	35	Physical_Education
##	36	Movement_Science
##	37	Motor_Learning_and_Control
##	38	Counseling_Psychology
##	39	Social_Studies
##	40	<pre>Higher_and_Postsecondary_Education</pre>
##	41	Inclusive_Education
##	42	Curriculum_and_Teaching
##	43	Deaf_and_Hard_of_Hearing
##	44	Spirituality_Mind_Body
##	45	Early_Childhood_Special_Education
##	46	Cooperation_and_Conflict_Resolution
##	47	MeasurementEvaluation_and_Statistics
##	48	History
##	49	Education_Leadership
##	50	Nutrition
##	51	Psychology
##	52	Anthropology
##	53	Design_and_Development_of_Digital_Games
##	54	Creative_Technologies
##	55	Instructional_Technology_and_Media
##	56	cluster
##		Science_Education
##		Dance_Education
##		
##		Social_Organizational_Psychology
##	61	Mathematics
##	62	Behavior_Analysis
##	63	College_Advising
##	64	Gifted_Education
##	65	Physiology
##	66	Leadership
##	67	Music
##	68	Intellectual_Disability_Autism
##		PC45
##	1	Psychological_Counseling
##	2	Creative_Technologies
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##		Early_Childhood_Education
##		<pre>Design_and_Development_of_Digital_Games</pre>
##	5	Kinesiology
##	6	Art_Education
##	7	Bilingual_Bicultural_Education
##	8	Diabetes_Education
##	9	Politics
##	10	Arts_Administration
##	11	Economics_and_Education
##	12	Inclusive_Education
##	13	English_Education
##	14	cluster
##	15	Music
##	16	Clinical_Psychology
##	17	Counseling_Psychology
##	18	Deaf_and_Hard_of_Hearing
##	19	Private_School_Leadership
##	20	Dance_Education
##	21	Movement_Science
##	22	Leadership
##	23	Physical_Education
##	24	Literacy
##	25	Cognitive_Science
##	26	SexualityWomen_and_Gender_in_Psychology
##	27	Instructional_Technology_and_Media
##	28	Education_Policy
##	29	International_and_Comparative_Education
##	30	Intellectual_Disability_Autism
##	31	School_Principals
##	32	Cooperation_and_Conflict_Resolution
##	33	Anthropology
##	34	Nursing
##	35	Psychology
##	36	Neuroscience
##	37	College_Advising
##	38	Developmental_Psychology
##	39	Communication_Media_and_Learning_Technologies
##	40	Education_Leadership
##		Health_Education
	42	Philosophy
	43	Motor_Learning_and_Control
	44	Learning_Analytics
	45	Sociology
	46	Urban_Education
	47	Social_Organizational_Psychology
	48	Teaching_English
	49	Social_Studies
	50	Reading
##		Linguistics
	52	Behavior_Analysis
	53	Communication_Sciences_and_Disorders
##		Mathematics
##		Gifted_Education
##		_
##	00	School_Psychology

##	57	Higher_and_Postsecondary_Education
##	58	Science_Education
##	59	Physiology
##	60	Spirituality_Mind_Body
##	61	Adult_Education
##	62	MeasurementEvaluation_and_Statistics
##	63	History
##	64	Early_Childhood_Special_Education
##	65	Education_Technology
##	66	Nutrition
##	67	Curriculum_and_Teaching
##	68	Change_Leadership
##		PC46
##	1	Psychological_Counseling
##	2	Literacy
##	3	Physical_Education
##	4	Leadership
##	5	History
##	6	International_and_Comparative_Education
##	7	Bilingual_Bicultural_Education
##	8	Philosophy
##	9	Communication_Sciences_and_Disorders
##	10	Science_Education
##	11	Social_Studies
##	12	Education_Leadership
##	13	- Art_Education
##	14	Deaf_and_Hard_of_Hearing
##	15	Dance_Education
##	16	Urban_Education
##	17	Early_Childhood_Education
##	18	Physiology
##	19	Education_Technology
##	20	Clinical_Psychology
##	21	Motor_Learning_and_Control
##	22	Linguistics
##	23	Spirituality_Mind_Body
##	24	Diabetes_Education
##		Nutrition
	26	Teaching_English
	27	Music
	28	Cognitive_Science
##		Developmental_Psychology
	30	Mathematics
##		Kinesiology
	32	Private_School_Leadership
	33	Movement_Science
	34	cluster
##		Sociology
	36	College_Advising
	37	Instructional_Technology_and_Media
	38	Learning_Analytics
	39	Inclusive_Education
	40	School_Psychology
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## 48	Psychology
## 49	${\tt Cooperation_and_Conflict_Resolution}$
## 50	SexualityWomen_and_Gender_in_Psychology
## 51	MeasurementEvaluation_and_Statistics
## 52	Curriculum_and_Teaching
## 53	School_Principals
## 54	Economics_and_Education
## 55	Communication_Media_and_Learning_Technologies
## 56	Gifted_Education
## 57	Education_Policy
## 58	Behavior_Analysis
## 59	Neuroscience
## 60	Adult_Education
## 61	Early_Childhood_Special_Education
## 62	Nursing
## 63	English_Education
## 64	Reading
## 65	_
## 66	Counseling_Psychology
## 67	
## 68	Politics
## 68 ##	Politics PC47
##	PC47
## ## 1	PC47 Philosophy
## ## 1 ## 2	PC47 Philosophy Education_Policy
## ## 1 ## 2 ## 3	PC47 Philosophy Education_Policy Diabetes_Education
## ## 1 ## 2 ## 3 ## 4	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology
## 1	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders
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## 1	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies
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## 1 ## 2 ## 3 ## 4 ## 5 ## 6 ## 7 ## 9 ## 10	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis
## 1 ## 2 ## 3 ## 4 ## 5 ## 6 ## 7 ## 8 ## 9 ## 10	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology
## 1 ## 2 ## 3 ## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control
## 1 ## 2 ## 3 ## 4 ## 5 ## 6 ## 7 ## 8 ## 9 ## 10 ## 11 ## 12 ## 13	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy
## 1 ## 2 ## 3 ## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 13 ## 14	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy Urban_Education
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## ## 1	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy Urban_Education Social_Organizational_Psychology cluster MeasurementEvaluation_and_Statistics
## ## 1 ## 2 ## 3 ## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 13 ## 14 ## 15 ## 17 ## 18	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy Urban_Education Social_Organizational_Psychology cluster Measurement_Evaluation_and_Statistics Gifted_Education
## ## 1 ## 2 ## 4 4 ## 5 ## 10 ## 11 ## 12 ## 14 ## 15 ## 16 ## 17 ## 18 ## 19	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy Urban_Education Social_Organizational_Psychology cluster Measurement_Evaluation_and_Statistics Gifted_Education English_Education
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## ## 1 2 ## 4 5 ## 5 6 7 8 ## 10 ## 11 12 ## 15 16 ## 17 ## 18 ## 19 ## 20 ## 21 ## 22	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders
## ## 1 2 ## 4 5 ## 5 6 7 8 ## 10 ## 11 ## 12 ## 15 ## 16 ## 17 ## 18 ## 20 ## 21 ## 22 ## 23	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy Urban_Education Social_Organizational_Psychology cluster Measurement_Evaluation_and_Statistics Gifted_Education English_Education Education_Leadership History Inclusive_Education
## ## 1 2 ## 4 5 ## 5 6 7 8 ## 10 ## 12 ## 13 4 ## 15 ## 16 ## 17 ## 18 ## 20 ## 21 ## 22 ## 24 ## 24	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders
## ## 1 2 ## 4 5 ## 5 6 7 8 ## 10 ## 11 ## 12 ## 15 ## 16 ## 17 ## 18 ## 20 ## 21 ## 22 ## 23	PC47 Philosophy Education_Policy Diabetes_Education Developmental_Psychology Communication_Sciences_and_Disorders Leadership Creative_Technologies Communication_Media_and_Learning_Technologies Early_Childhood_Education Early_Childhood_Special_Education Behavior_Analysis Counseling_Psychology Motor_Learning_and_Control Literacy Urban_Education Social_Organizational_Psychology cluster Measurement_Evaluation_and_Statistics Gifted_Education English_Education Education_Leadership History Inclusive_Education Science_Education Health_Education

## 27	Linguistics
## 28	Deaf_and_Hard_of_Hearing
## 29	Physiology
## 30	Teaching_English
## 31	Cooperation_and_Conflict_Resolution
## 32	Psychological_Counseling
## 33	Private_School_Leadership
## 34	Nursing
## 35	Psychology
## 36	Physical_Education
## 37	Economics_and_Education
## 38	Reading
## 39	College_Advising
## 40	Intellectual_Disability_Autism
## 41	Spirituality_Mind_Body
## 42	Adult_Education
## 43	Instructional_Technology_and_Media
## 44	School_Principals
## 45	Neuroscience
## 46	Movement_Science
## 47	Politics
## 48	Mathematics
## 49	Change_Leadership
## 50	Social_Studies
## 51	Bilingual_Bicultural_Education
## 52	Design_and_Development_of_Digital_Games
## 53	Sexuality_Women_and_Gender_in_Psychology
## 54	School_Psychology
## 55	Curriculum_and_Teaching
## 56	Higher_and_Postsecondary_Education
## 57	Art_Education
## 58	Cognitive_Science
## 59	Music
## 60	Education_Technology
## 61	Arts_Administration
## 62	International_and_Comparative_Education
## 63	Kinesiology
## 64	Anthropology
## 65	Dance_Education
## 66	Sociology
## 67	Learning_Analytics
## 68	Clinical_Psychology
## 00	PC48
## ## 1	Social_Organizational_Psychology
## 2	Arts_Administration
## 2 ## 3	Mathematics
## 3 ## 4	
## 4 ## 5	Social_Studies
	Dance_Education
## 6 ## 7	Bilingual_Bicultural_Education
## 7 ## 0	Teaching_English
## 8 ## 0	Instructional_Technology_and_Media
## 9 ## 10	Clinical_Psychology
## 10 ## 11	Kinesiology
## 11	${\tt Intellectual_Disability_Autism}$

##	12	Diabetes_Education
##	13	Urban_Education
##	14	Science_Education
##	15	Early_Childhood_Special_Education
##	16	Nutrition
##	17	Nursing
##	18	School_Principals
##	19	School_Psychology
##	20	Counseling_Psychology
##	21	Motor_Learning_and_Control
##	22	${\tt Cooperation_and_Conflict_Resolution}$
##	23	Education_Policy
##	24	MeasurementEvaluation_and_Statistics
##	25	College_Advising
##	26	Early_Childhood_Education
##	27	SexualityWomen_and_Gender_in_Psychology
##	28	Sociology
##	29	Literacy
##	30	Movement_Science
##	31	Developmental_Psychology
##	32	Leadership
##	33	Psychology
##	34	Education_Leadership
##	35	Communication_Media_and_Learning_Technologies
##	36	Economics_and_Education
##	37	Private_School_Leadership
##	38	Psychological_Counseling
##	39	Physical_Education
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##	41	Deaf_and_Hard_of_Hearing
##	42	Education_Technology
##	43	Communication_Sciences_and_Disorders
##	44	English_Education
##	45	Change_Leadership
##	46	Physiology
##	47	Spirituality_Mind_Body
##	48	Health_Education
##	49	- Anthropology
	50	Politics
##		Linguistics
##		Learning_Analytics
##		Reading
##		Higher_and_Postsecondary_Education
##		Creative_Technologies
##		Neuroscience
##		Philosophy
##		Inclusive_Education
##		History
##		Gifted_Education
##		Music
##		International_and_Comparative_Education
##		Design_and_Development_of_Digital_Games
##		Art_Education
##		Art_Education Behavior_Analysis
##	05	Denavior_Analysis

##	66	Curriculum_and_Teaching
##	67	Cognitive_Science
##	68	Adult_Education
##		PC49
##	1	Teaching_English
##	2	Gifted_Education
##	3	Nursing
##	4	<pre>Instructional_Technology_and_Media</pre>
##	5	Education_Policy
##	6	Anthropology
##	7	Psychological_Counseling
##	8	Reading
##	9	Deaf_and_Hard_of_Hearing
##	10	Curriculum_and_Teaching
##	11	Leadership
##	12	cluster
##	13	Movement_Science
##	14	${\tt Cooperation_and_Conflict_Resolution}$
##	15	Developmental_Psychology
##	16	English_Education
##	17	${\tt Measurement_Evaluation_and_Statistics}$
##	18	Private_School_Leadership
##	19	Social_Studies
##	20	Kinesiology
##	21	Counseling_Psychology
##	22	Creative_Technologies
##	23	Urban_Education
##	24	Inclusive_Education
##	25	Linguistics
##	26	Dance_Education
##	27	<pre>Higher_and_Postsecondary_Education</pre>
##	28	Learning_Analytics
##	29	Spirituality_Mind_Body
##	30	School_Principals
##	31	Sociology
##	32	Communication_Sciences_and_Disorders
##	33	Physical_Education
##	34	Diabetes_Education
##	35	SexualityWomen_and_Gender_in_Psychology
##	36	Behavior_Analysis
##	37	Literacy
##	38	History
##	39	Adult_Education
##	40	Social_Organizational_Psychology
##	41	Education_Technology
##	42	Music
##	43	${\tt Early_Childhood_Special_Education}$
##	44	Clinical_Psychology
##	45	School_Psychology
##	46	Health_Education
##	47	Economics_and_Education
##	48	${\tt Early_Childhood_Education}$
##	49	Science_Education
##	50	Mathematics

##		Motor_Learning_and_Control
##	52	Neuroscience
##	53	Design_and_Development_of_Digital_Games
##	54	College_Advising
##	55	Education_Leadership
##	56 57	Psychology
##	57 58	Nutrition
##	59	Cognitive_Science Politics
##	60	Intellectual_Disability_Autism
##	61	Change_Leadership
##		Physiology
	63	Communication_Media_and_Learning_Technologies
##	64	Bilingual_Bicultural_Education
##	65	Philosophy
	66	International_and_Comparative_Education
##		Art_Education
##	68	Arts_Administration
##	00	PC50
##	1	Dance_Education
##	2	Deaf_and_Hard_of_Hearing
##	3	Spirituality_Mind_Body
##		Design_and_Development_of_Digital_Games
##	5	Cognitive_Science
	6	Music
##	7	Motor_Learning_and_Control
##	8	Higher_and_Postsecondary_Education
##	9	Communication_Sciences_and_Disorders
##	10	Sociology
##	11	Clinical_Psychology
##	12	Politics
##	13	Gifted_Education
##	14	College_Advising
##	15	Health_Education
##	16	Science_Education
##	17	Sexuality_Women_and_Gender_in_Psychology
##	18	Philosophy
##	19	School_Principals
	20	Education_Leadership
##		Nursing
##		Literacy
##		Nutrition
##		Physical_Education
##		Change_Leadership
##		Arts_Administration
##	27	Communication_Media_and_Learning_Technologies
##	28	Counseling_Psychology
##	29	Diabetes_Education
##		Early_Childhood_Special_Education
##		Creative_Technologies
##		English_Education Inclusive_Education
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##	34	Behavior_Analysis
##	35	Neuroscience

##		Curriculum_and_Teaching
##	37	Education_Technology
##	38	MeasurementEvaluation_and_Statistics
##	39	Anthropology
##		Adult_Education
##		Psychological_Counseling
##		Linguistics
##		Social_Organizational_Psychology
##		Social_Studies
##		Education_Policy
##		History
##		Urban_Education
##		Bilingual_Bicultural_Education
##		Movement_Science
	50	Leadership
	51	Kinesiology
##		Economics_and_Education
##		International_and_Comparative_Education
##		Mathematics
##		cluster
##		Learning_Analytics
##		Reading
##		Developmental_Psychology
##		Private_School_Leadership
##		Intellectual_Disability_Autism
##		Psychology
##		Cooperation_and_Conflict_Resolution
##		Early_Childhood_Education
##		Physiology
##		Instructional_Technology_and_Media
##	66	School_Psychology
	67	Teaching_English
##	68	Art_Education
##		PC51
##	1	Neuroscience
##	2	Education_Policy
##	3	Nutrition
##		Design_and_Development_of_Digital_Games
##		Deaf_and_Hard_of_Hearing
##		Nursing
	7	Psychology
##		Intellectual_Disability_Autism
##		Change_Leadership
##	10	Sociology
##	11	Urban_Education
##	12	Motor_Learning_and_Control
##	13	Arts_Administration
##	14	School_Psychology
##	15	Learning_Analytics
##	16	Science_Education
##	17	Philosophy International and Comparative Education
##	18	International_and_Comparative_Education
##	19	Dance_Education
##	20	Private_School_Leadership

	21	English_Education
##	22	Physiology
##	23	Cognitive_Science
##	24	Mathematics
##	25	Art_Education
##	26	Instructional_Technology_and_Media
##	27	History
##	28	Literacy
##	29	MeasurementEvaluation_and_Statistics
##	30	Economics_and_Education
##	31	Curriculum_and_Teaching
##	32	Developmental_Psychology
##	33	<pre>Higher_and_Postsecondary_Education</pre>
##	34	Cooperation_and_Conflict_Resolution
##	35	Linguistics
##	36	Kinesiology
##	37	Spirituality_Mind_Body
##	38	Social_Studies
##	39	Behavior_Analysis
##	40	Bilingual_Bicultural_Education
##	41	Education_Leadership
##	42	Clinical_Psychology
##	43	School_Principals
##	44	${\tt Communication_Media_and_Learning_Technologies}$
##	45	Diabetes_Education
##	46	Music
##	47	Communication_Sciences_and_Disorders
##	48	Creative_Technologies
##	49	Early_Childhood_Education
##	50	Gifted_Education
##	51	Counseling_Psychology
##	52	Anthropology
##	53	Inclusive_Education
##	54	Adult_Education
##	55	Leadership
##	56	Social_Organizational_Psychology
##	57	SexualityWomen_and_Gender_in_Psychology
##	58	Physical_Education
##	59	College_Advising
##	60	Movement_Science
##	61	Teaching_English
##	62	Education_Technology
##	63	${\tt Early_Childhood_Special_Education}$
##	64	Health_Education
##	65	Reading
##	66	Psychological_Counseling
##	67	cluster
##	68	Politics
##		PC52
##	1	Health_Education
##	2	Politics
##	3	${\tt Early_Childhood_Special_Education}$
##	4	Urban_Education
##	5	Mathematics

##		Learning_Analytics
##	7	<pre>Instructional_Technology_and_Media</pre>
##	8	Physiology
##	9	Nutrition
##	10	Philosophy
##	11	Diabetes_Education
##	12	Reading
##	13	${\tt Cooperation_and_Conflict_Resolution}$
##	14	Literacy
##	15	Gifted_Education
##	16	Leadership
##	17	School_Principals
##	18	English_Education
##	19	Counseling_Psychology
##	20	Physical_Education
##	21	Inclusive_Education
##	22	Change_Leadership
##	23	Design_and_Development_of_Digital_Games
##	24	Economics_and_Education
##	25	SexualityWomen_and_Gender_in_Psychology
##	26	Dance_Education
##	27	Movement_Science
##	28	Linguistics
##	29	Higher_and_Postsecondary_Education
##		Behavior_Analysis
##	31	Private_School_Leadership
##		Education_Leadership
##	33	International_and_Comparative_Education
##	34	Deaf_and_Hard_of_Hearing
##	35	Clinical_Psychology
##	36	Measurement_Evaluation_and_Statistics
##	37	Bilingual_Bicultural_Education
##	38	Curriculum_and_Teaching
##	39	Developmental_Psychology
##		Science_Education
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	45	Psychological_Counseling Education_Policy
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	48	Art_Education
##		Kinesiology
##	50	History Music
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##		Communication_Media_and_Learning_Technologies
##	53	Education_Technology
##		Motor_Learning_and_Control
	55	Nursing
	56	Social_Studies
##		Adult_Education
##	58	Neuroscience
##	59	College_Advising

## 60	Early_Childhood_Education
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## 68 ##	Social_Organizational_Psychology PC53
## ## 1	History
## 2	Leadership
## 3	Early_Childhood_Special_Education
## 4	Arts_Administration
## 5	Nursing
## 6	Private_School_Leadership
## 7	Motor_Learning_and_Control
## 8	Mathematics
## 9	Inclusive_Education
## 10	cluster
## 11	Developmental_Psychology
## 12	School_Principals
## 13	Change_Leadership
## 14	Health_Education
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## 34 ## 35	Curriculum_and_Teaching Education_Technology School_Psychology
## 34 ## 35 ## 36	Curriculum_and_Teaching Education_Technology School_Psychology Music
## 34 ## 35 ## 36 ## 37	Curriculum_and_Teaching Education_Technology School_Psychology Music Gifted_Education
## 34 ## 35 ## 36 ## 37 ## 38	Curriculum_and_Teaching Education_Technology School_Psychology Music Gifted_Education Social_Organizational_Psychology
## 34 ## 35 ## 36 ## 37 ## 38	Curriculum_and_Teaching Education_Technology School_Psychology Music Gifted_Education Social_Organizational_Psychology Higher_and_Postsecondary_Education
## 34 ## 35 ## 36 ## 37 ## 38 ## 40 ## 41 ## 41	Curriculum_and_Teaching Education_Technology School_Psychology Music Gifted_Education Social_Organizational_Psychology Higher_and_Postsecondary_Education College_Advising Reading
## 34 ## 35 ## 37 ## 38 ## 40 ## 41	Curriculum_and_Teaching Education_Technology School_Psychology Music Gifted_Education Social_Organizational_Psychology Higher_and_Postsecondary_Education College_Advising Reading

##	45	<pre>Deaf_and_Hard_of_Hearing</pre>
	46	Anthropology
##		Politics
##	48	MeasurementEvaluation_and_Statistics
##	49	<pre>Instructional_Technology_and_Media</pre>
##	50	Social_Studies
##	51	Linguistics
##	52	Art_Education
##	53	Education_Leadership
##	54	Adult_Education
##	55	Spirituality_Mind_Body
##	56	Physiology
##	57	SexualityWomen_and_Gender_in_Psychology
##	58	Clinical_Psychology
##	59	Philosophy
##	60	Education_Policy
##	61	Economics_and_Education
##	62	Physical_Education
##	63	<pre>Design_and_Development_of_Digital_Games</pre>
##	64	${\tt Bilingual_Bicultural_Education}$
##	65	Science_Education
##	66	English_Education
##	67	Urban_Education
##	68	Psychological_Counseling
##		PC54
##	1	Inclusive_Education
##	2	Communication_Sciences_and_Disorders
##	3	<pre>Design_and_Development_of_Digital_Games</pre>
##	4	Physiology
##	5	Social_Studies
##	6	Motor_Learning_and_Control
##	7	Education_Technology
##	8	Reading
##	9	Arts_Administration
##	10	Leadership
##	11	Adult_Education
##	12	SexualityWomen_and_Gender_in_Psychology
##	13	Behavior_Analysis
##	14	Urban_Education
##	15	Sociology
##	16	$International_and_Comparative_Education$
##	17	Literacy
##	18	College_Advising
##	19	Early_Childhood_Education
##	20	Dance_Education
##	21	MeasurementEvaluation_and_Statistics
##	22	Physical_Education
##	23	Education_Policy
##	24	Economics_and_Education
##	25	Psychological_Counseling
##	26	Curriculum_and_Teaching
##	27	Philosophy
##	28	Science_Education
##	29	Music

##		Psychology
##	31	Spirituality_Mind_Body
##	32	Creative_Technologies
##	33	Mathematics
##	34	History
##	35	Kinesiology
##	36	Linguistics
##	37	Learning_Analytics
##	38	Teaching_English
##	39	Early_Childhood_Special_Education
##		Private_School_Leadership
##		Health_Education
##	42	Anthropology
##	43	Art_Education
##	44	Deaf_and_Hard_of_Hearing
##	45	Education_Leadership
##	46	Counseling_Psychology
	47	cluster
##	48	Gifted_Education
##	49	Nutrition
##	50	Cognitive_Science
##	51	${\tt Bilingual_Bicultural_Education}$
##	52	Neuroscience
##	53	Movement_Science
##	54	${\tt Communication_Media_and_Learning_Technologies}$
##	55	Diabetes_Education
##	56	School_Psychology
##	57	${\tt Intellectual_Disability_Autism}$
##	58	Social_Organizational_Psychology
##	59	Nursing
##	60	<pre>Instructional_Technology_and_Media</pre>
##	61	Clinical_Psychology
##	62	Politics
##	63	<pre>Higher_and_Postsecondary_Education</pre>
##	64	Developmental_Psychology
##	65	${\tt Cooperation_and_Conflict_Resolution}$
##	66	English_Education
##	67	Change_Leadership
##	68	School_Principals
##		PC55
##	1	Curriculum_and_Teaching
##	2	Early_Childhood_Special_Education
##	3	Music
##	4	Neuroscience
##	5	Clinical_Psychology
##	6	<pre>Design_and_Development_of_Digital_Games</pre>
##	7	Anthropology
##	8	Science_Education
##	9	Philosophy
##	10	Nursing
##	11	School_Principals
##	12	English_Education
##	13	Reading
##	14	Deaf_and_Hard_of_Hearing

##	15	cluster
##	16	Sociology
##	17	Learning_Analytics
##	18	${\tt Instructional_Technology_and_Media}$
##	19	Arts_Administration
##	20	Leadership
##	21	SexualityWomen_and_Gender_in_Psychology
##	22	Linguistics
##	23	Adult_Education
##	24	Mathematics
##	25	Health_Education
##	26	Literacy
##	27	Psychological_Counseling
##	28	Change_Leadership
##	29	${\tt Communication_Media_and_Learning_Technologies}$
##	30	Higher_and_Postsecondary_Education
##	31	Communication_Sciences_and_Disorders
##	32	Politics
##	33	Social_Organizational_Psychology
##	34	Movement_Science
##	35	Private_School_Leadership
##	36	Developmental_Psychology
##	37	Inclusive_Education
##	38	Teaching_English
##	39	Behavior_Analysis
##	40	History
##	41	MeasurementEvaluation_and_Statistics
##	42	Counseling_Psychology
##	43	Physiology
##	44	College_Advising
##	45	Motor_Learning_and_Control
##	46	Early_Childhood_Education
##	47	Spirituality_Mind_Body
##	48	Psychology
##	49	Cognitive_Science
##	50	Bilingual_Bicultural_Education
##	51	Gifted_Education
##	52	Kinesiology
##	53	Art_Education
##	54	Urban_Education
##	55	Education_Policy
##	56	Intellectual_Disability_Autism
##	57	Diabetes_Education
##	58	Economics_and_Education
##	59	Social_Studies
##	60	Dance_Education
##		School_Psychology
##		Education_Leadership
##		International_and_Comparative_Education
##		Physical_Education
##		Creative_Technologies
##		Education_Technology
##		Cooperation_and_Conflict_Resolution
##		Nutrition

	DOEG
##	PC56
## 1 ## 2	MeasurementEvaluation_and_Statistics
	International_and_Comparative_Education
## 3 ## 4	English_Education
	Physiology
## 5 ## 6	Cooperation_and_Conflict_Resolution
## 6	School_Psychology
## 7	Education_Leadership
## 8 ## 9	Adult_Education
	Leadership Music
## 10 ## 11	
## 11	Nursing
## 12	Social_Organizational_Psychology
## 13	Economics_and_Education
## 14	Kinesiology
## 15	Deaf_and_Hard_of_Hearing
## 16	Psychological_Counseling
## 17	Science_Education
## 18	Intellectual_Disability_Autism
## 19	Dance_Education
## 20	Social_Studies
## 21	Inclusive_Education
## 22	Politics
## 23	Instructional_Technology_and_Media
## 24	Cognitive_Science
## 25	Education_Policy
## 26	Spirituality_Mind_Body
## 27	Psychology
## 28	School_Principals
## 29	Early_Childhood_Special_Education
## 30	Philosophy
## 31	Urban_Education
## 32	Curriculum_and_Teaching
## 33	Movement_Science
## 34 ## 35	Clinical_Psychology
	Communication_Sciences_and_Disorders
## 36	Gifted_Education
## 37	Learning_Analytics
## 38	Art_Education
## 39	History
## 40	College_Advising
## 41	Bilingual_Bicultural_Education
## 42 ## 43	Literacy
	Private_School_Leadership
## 44	Early_Childhood_Education
## 45 ## 46	Physical_Education
## 46	Design_and_Development_of_Digital_Games
## 47 ## 40	Motor_Learning_and_Control
## 48 ## 40	Sexuality_Women_and_Gender_in_Psychology
## 49 ## 50	Anthropology
## 50 ## 51	Linguistics
## 51 ## 50	Developmental_Psychology
## 52 ## 52	Behavior_Analysis
## 53	Sociology

##	54	Higher_and_Postsecondary_Education
##	55	Arts_Administration
##	56	Creative_Technologies
##	57	Change_Leadership
##	58	Reading
##	59	Neuroscience
##	60	Mathematics
##	61	Diabetes_Education
##	62	Communication_Media_and_Learning_Technologies
##	63	Teaching_English
##	64	Nutrition
##	65	Health_Education
##	66	cluster
##	67	Counseling_Psychology
##	68	Education_Technology
##		PC57
##	1	Politics
##	2	Education_Leadership
##	3	Anthropology
##		Diabetes_Education
##	5	Adult_Education
##	6	Science_Education
##	7	Physical_Education
##	8	Social_Studies
##	9	Philosophy
##	10	Linguistics
##	11	Counseling_Psychology
##	12	Communication_Media_and_Learning_Technologies
##	13	Leadership
##	14	History
##	15	Private_School_Leadership
##	16	Clinical_Psychology
##	17	Learning_Analytics
##	18	Teaching_English
##	19	Motor_Learning_and_Control
##	20	Early_Childhood_Education
##	21	Music
##	22	MeasurementEvaluation_and_Statistics
##	23	Communication_Sciences_and_Disorders
##	24	Economics_and_Education
##	25	Behavior_Analysis
##	26	Neuroscience
##	27	Sociology
##	28	Arts_Administration
##	29	School_Psychology
##	30	Nutrition
##	31	<pre>Deaf_and_Hard_of_Hearing</pre>
##	32	Kinesiology
##	33	Design_and_Development_of_Digital_Games
##	34	Education_Technology
##	35	Curriculum_and_Teaching
##	36	Physiology
##	37	Intellectual_Disability_Autism
##	38	Dance_Education

## 39	International_and_Comparative_Education
## 40	Psychology
## 41	Mathematics
## 42	Urban_Education
## 43	<pre>Higher_and_Postsecondary_Education</pre>
## 44	${\tt Instructional_Technology_and_Media}$
## 45	Nursing
## 46	Movement_Science
## 47	Social_Organizational_Psychology
## 48	${\tt Bilingual_Bicultural_Education}$
## 49	${\tt Cooperation_and_Conflict_Resolution}$
## 50	Education_Policy
## 51	Creative_Technologies
## 52	Inclusive_Education
## 53	Health_Education
## 54	Developmental_Psychology
## 55	School_Principals
## 56	Art_Education
## 57	Spirituality_Mind_Body
## 58	Cognitive_Science
## 59	Psychological_Counseling
## 60	Reading
## 61	SexualityWomen_and_Gender_in_Psychology
## 62	cluster
## 63	Change_Leadership
## 64	Literacy
## 65	College_Advising
## 66	Early_Childhood_Special_Education
## 67	Gifted_Education
## 68	English_Education
##	PC58
## 1	Linguistics
## 2	Higher_and_Postsecondary_Education
## 3	Science_Education
## 4	College_Advising
## 5	Communication_Sciences_and_Disorders
## 6	Social_Studies
## 7	Curriculum_and_Teaching
## 8	Learning_Analytics
## 9	School_Psychology
## 10	Bilingual_Bicultural_Education
## 11	Anthropology
## 12	Leadership
## 13	Literacy
## 14	Psychological_Counseling
## 15	Reading
## 16	Kinesiology
## 17	Cognitive_Science
## 18	Developmental_Psychology
## 19	Inclusive_Education
## 20	Deaf_and_Hard_of_Hearing
## 21	Counseling_Psychology
## 22	Economics_and_Education
## 23	Education_Leadership
20	Lateation_Leaderbiilp

##	24	English_Education
##	25	Change_Leadership
##	26	School_Principals
##	27	Private_School_Leadership
##	28	Physical_Education
##	29	Movement_Science
##	30	Social_Organizational_Psychology
##	31	cluster
##	32	Gifted_Education
##	33	Education_Technology
##	34	Music
##	35	Physiology
##	36	Sociology
##	37	Mathematics
##	38	Politics
##	39	Nutrition
##	40	Neuroscience
##	41	Spirituality_Mind_Body
##	42	Adult_Education
##	43	International_and_Comparative_Education
##	44	History
##	45	Health Education
##		Cooperation_and_Conflict_Resolution
##	47	Early_Childhood_Special_Education
##		Nursing
##		Clinical_Psychology
##		Education_Policy
##		Teaching_English
##		Dance_Education
##		Early_Childhood_Education
##		Philosophy
##		Psychology
##		Measurement_Evaluation_and_Statistics
##		Art_Education
	วห	
##	58 59	${\tt Communication_Media_and_Learning_Technologies}$
	59	$\begin{tabular}{ll} Communication_Media_and_Learning_Technologies\\ Arts_Administration \end{tabular}$
##	59 60	Communication_Media_and_Learning_Technologies
## ##	59 60 61	Communication_Media_and_Learning_Technologies
## ## ##	59 60 61 62	Communication_Media_and_Learning_Technologies
## ## ## ##	59 60 61 62 63	Communication_Media_and_Learning_Technologies
## ## ## ##	59 60 61 62 63 64	Communication_Media_and_Learning_Technologies
## ## ## ## ##	59 60 61 62 63 64 65	Communication_Media_and_Learning_Technologies
## ## ## ## ## ##	59 60 61 62 63 64 65 66	Communication_Media_and_Learning_Technologies
## ## ## ## ## ##	59 60 61 62 63 64 65 66 67	Communication_Media_and_Learning_Technologies
## ## ## ## ## ##	59 60 61 62 63 64 65 66	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68 1 2 3	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68 1 2 3 4 5	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68 1 2 3 4 5 6	Communication_Media_and_Learning_Technologies
## ## ## ## ## ## ## ## ## ## ## ## ##	59 60 61 62 63 64 65 66 67 68 1 2 3 4 5 6	Communication_Media_and_Learning_Technologies

##	9	Psychology
##	10	Gifted_Education
##	11	$Bilingual_Bicultural_Education$
	12	School_Principals
##	13	${\tt Communication_Media_and_Learning_Technologies}$
##	14	Clinical_Psychology
##	15	Communication_Sciences_and_Disorders
	16	<pre>Intellectual_Disability_Autism</pre>
##	17	<pre>Higher_and_Postsecondary_Education</pre>
##	18	Urban_Education
##	19	Reading
##		Kinesiology
##		Private_School_Leadership
##		Health_Education
##		${\tt Cooperation_and_Conflict_Resolution}$
##		English_Education
##	25	$International_and_Comparative_Education$
##		Music
##		Literacy
##	28	${\tt Design_and_Development_of_Digital_Games}$
##		Leadership
##		Physiology
##		<pre>Instructional_Technology_and_Media</pre>
##		Arts_Administration
##		Behavior_Analysis
##		Nutrition
##		SexualityWomen_and_Gender_in_Psychology
##		Philosophy
##		Education_Policy
##		Social_Studies
##		Mathematics
##		Sociology
##		Social_Organizational_Psychology
##		Spirituality_Mind_Body
##		Science_Education
	44	Politics
##		Inclusive_Education
##		Education_Technology
##		Education_Leadership
##		Early_Childhood_Education
##		School_Psychology
##		History
##		Early_Childhood_Special_Education
##		Adult_Education
##		Dance_Education
##		Developmental_Psychology
##		Learning_Analytics
##		Teaching_English
	57	Movement_Science
##		Curriculum_and_Teaching
	59	Art_Education
##		Nursing
	61	MeasurementEvaluation_and_Statistics
##	62	Creative_Technologies

## 6	33	Neuroscience
## 6	34	Diabetes_Education
## 6	35	Physical_Education
## 6	66	Motor_Learning_and_Control
## 6	37	Psychological_Counseling
## 6	38	Anthropology
##		PC60
## 1	1	Cooperation_and_Conflict_Resolution
## 2		International_and_Comparative_Education
## 3	3	Kinesiology
## 4		Social_Organizational_Psychology
## 5	5	Communication_Media_and_Learning_Technologies
## 6		Politics
## 7		Design_and_Development_of_Digital_Games
## 8		Movement_Science
## 9		Social_Studies
	10	Counseling_Psychology
	11	Spirituality_Mind_Body
	12	Health_Education
	13	Intellectual_Disability_Autism
	14	Sexuality_Women_and_Gender_in_Psychology
	15	Private_School_Leadership
	16	Psychology
	17	Leadership
	18	Measurement_Evaluation_and_Statistics
	19	Learning_Analytics
## 2		Communication_Sciences_and_Disorders
## 2		Creative_Technologies
## 2		Curriculum_and_Teaching
## 2		Behavior_Analysis
## 2		Economics_and_Education
## 2		Clinical_Psychology
## 2		Physiology
## 2		Higher_and_Postsecondary_Education
## 2		Education_Leadership
## 2		College_Advising
## 3		Mathematics
## 3		Psychological_Counseling
## 3		Art_Education
## 3		Music
## 3		Gifted_Education
## 3		Dance_Education
## 3		Urban_Education
## 3		Science_Education
	38	_
	39	Anthropology
## 4		Motor_Learning_and_Control Deaf_and_Hard_of_Hearing
	11 12	Linguistics
	12	Education_Policy
## 4		Reading
## 4		Nutrition Farly Childhood Special Education
## 4		Early_Childhood_Special_Education
## 4		Inclusive_Education
## 4	± /	School_Psychology

##	48	Neuroscience
##	49	cluster
##	50	Change_Leadership
##	51	Cognitive_Science
##	52	Literacy
##	53	English_Education
##	54	Nursing
##	55	Developmental_Psychology
##	56	Instructional_Technology_and_Media
##	57	Diabetes_Education
##	58	Bilingual_Bicultural_Education
##	59	School_Principals
##	60	Education_Technology
##	61	Early_Childhood_Education
##	62	Physical_Education
##	63	Teaching_English
##	64	Philosophy
##	65	Arts_Administration
##	66	Sociology
##	67	History
##	68	Adult_Education
##		PC61
##	1	Nutrition
##	2	Health_Education
##	3	Early_Childhood_Education
##	4	Education_Technology
##	5	Education_Leadership
##	6	School_Principals
##	7	Intellectual_Disability_Autism
##	8	Higher_and_Postsecondary_Education
##	9	Developmental_Psychology
##	10	Movement_Science
##	11	Kinesiology
##	12	Adult_Education
##	13	Communication_Media_and_Learning_Technologies
##	14	Design_and_Development_of_Digital_Games
##	15	Dance Education
##	16	Spirituality_Mind_Body
##	17	Arts_Administration
##	18	English_Education
##	19	Education_Policy
##	20	Literacy
##	21	cluster
##	22	Physical_Education
##	23	History
##	24	Physiology
##	25	Change_Leadership
##	26	Mathematics
##	27	Gifted_Education
##	28	Creative_Technologies
##	29	Psychological_Counseling
##	30	Linguistics
##	31	Politics
##	32	Teaching_English
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## 33	Cooperation_and_Conflict_Resolution
## 34	SexualityWomen_and_Gender_in_Psychology
## 35	Behavior_Analysis
## 36	Private_School_Leadership
## 37	Reading
## 38	Counseling_Psychology
## 39	Leadership
## 40	Communication_Sciences_and_Disorders
## 41	Science_Education
## 42	Psychology
## 43	Urban_Education
## 44	Economics_and_Education
## 45	College_Advising
## 46	International_and_Comparative_Education
## 47	Sociology
## 48	<pre>Instructional_Technology_and_Media</pre>
## 49	Bilingual_Bicultural_Education
## 50	Deaf_and_Hard_of_Hearing
## 51	Nursing
## 52	Learning_Analytics
## 53	Cognitive_Science
## 54	Anthropology
## 55	Social_Organizational_Psychology
## 56	Philosophy
## 57	Early_Childhood_Special_Education
## 58	Social_Studies
## 59	MeasurementEvaluation_and_Statistics
## 60	Motor_Learning_and_Control
## 61	Neuroscience
## 62	Clinical_Psychology
## 63	Music
## 64	School_Psychology
## 65	Inclusive_Education
## 66	Curriculum_and_Teaching
## 67	Art_Education
## 68	Diabetes_Education
##	PC62
## 1	Psychology
## 2	Literacy
## 3	Change_Leadership
## 4	Instructional_Technology_and_Media
## 5	History
## 6	Mathematics
## 7	Clinical_Psychology
## 8	Inclusive_Education
## 9	Neuroscience
## 10	Physiology
## 11	Physical_Education
## 12	Deaf_and_Hard_of_Hearing
## 13	Social_Organizational_Psychology
## 14	cluster
## 15	Reading
## 16	Cooperation_and_Conflict_Resolution
## 17	Education_Policy
1	Education_1011cy

##	18	Teaching_English
##	19	${\tt Early_Childhood_Special_Education}$
##	20	Nutrition
##	21	Behavior_Analysis
##	22	<pre>Design_and_Development_of_Digital_Games</pre>
##	23	English_Education
##	24	International_and_Comparative_Education
##	25	Nursing
##	26	Bilingual_Bicultural_Education
##	27	Movement_Science
##	28	Learning_Analytics
##	29	Linguistics
##	30	Science_Education
##	31	Urban_Education
##	32	Creative_Technologies
##	33	Anthropology
##	34	Art_Education
##	35	Social_Studies
##	36	MeasurementEvaluation_and_Statistics
##	37	Counseling_Psychology
##	38	Motor_Learning_and_Control
##	39	Communication_Media_and_Learning_Technologies
##	40	Developmental_Psychology
##	41	Communication_Sciences_and_Disorders
##	42	School_Principals
	43	Gifted_Education
##		College_Advising
##	45	Intellectual_Disability_Autism
##	46	Politics
##	47	Spirituality_Mind_Body
	48	Psychological_Counseling
##		Cognitive_Science
##		Education_Technology
##		Kinesiology
##		Health_Education
	53	Adult_Education
	54	Leadership
	55	Curriculum_and_Teaching
	56	Arts_Administration
	57	Dance_Education
	58	Early_Childhood_Education
	59	Sexuality_Women_and_Gender_in_Psychology
	60	Diabetes_Education
	61	School_Psychology
	62	Higher_and_Postsecondary_Education
	63	Philosophy
	64	Sociology
##	65	Music
##	66	Education_Leadership
##	67	Education_Leadership Economics_and_Education
	68	Private_School_Leadership
##	55	PC63
##	1	Sexuality_Women_and_Gender_in_Psychology
##		Private_School_Leadership
##	_	tilvare_pounoi_readelsuib

##	3	Education_Leadership
##	4	cluster
##	5	<pre>Intellectual_Disability_Autism</pre>
##	6	Economics_and_Education
##	7	Change_Leadership
##	8	International_and_Comparative_Education
##	9	Reading
##	10	College_Advising
##	11	Early_Childhood_Special_Education
##	12	Adult_Education
##	13	Neuroscience
##	14	Curriculum_and_Teaching
##	15	Physiology
##	16	Social_Studies
##	17	Music
##	18	Philosophy
##	19	Anthropology
##	20	Gifted_Education
##	21	Cognitive_Science
##	22	Psychological_Counseling
##	23	Diabetes_Education
##	24	Kinesiology
##	25	Early_Childhood_Education
##	26	Communication_Media_and_Learning_Technologies
##	27	Education_Technology
##	28	Higher_and_Postsecondary_Education
##	29	Social_Organizational_Psychology
##	30	Bilingual_Bicultural_Education
##	31	Motor_Learning_and_Control
##	32	School_Psychology
##	33	Physical_Education
##	34	Dance_Education
##	35	Instructional_Technology_and_Media
##	36	Politics
##	37	English_Education
##	38	Mathematics
##	39	Arts_Administration
##	40	History
##	41	Spirituality_Mind_Body
	42	Behavior_Analysis
##	43	Movement_Science
##	44	- Psychology
##	45	Nutrition
##	46	Linguistics
	47	Developmental_Psychology
##	48	Sociology
	49	Learning_Analytics
	50	Urban_Education
	51	Literacy
	52	Teaching_English
	53	School_Principals
	54	Creative_Technologies
	55	Communication_Sciences_and_Disorders
	56	Leadership
	-	Leaderburp

## 57	Science_Education
## 58	Art_Education
## 59	Education_Policy
## 60	Clinical_Psychology
## 61	Deaf_and_Hard_of_Hearing
## 62	Cooperation_and_Conflict_Resolution
## 63	Counseling_Psychology
## 64	Health_Education
## 65	- Nursing
## 66	MeasurementEvaluation_and_Statistics
## 67	Design_and_Development_of_Digital_Games
## 68	Inclusive_Education
##	PC64
## 1	Psychology
## 2	Learning_Analytics
## 3	cluster
## 4	Literacy
## 5	Clinical_Psychology
## 6	History
## 7	Linguistics
## 8	Communication_Sciences_and_Disorders
## 9	Behavior_Analysis
## 10	Anthropology
## 10	English_Education
## 12	Social_Organizational_Psychology
## 12	Social_drgamizational_rsychology Neuroscience
	Spirituality_Mind_Body
## 15	International_and_Comparative_Education
## 16	Counseling_Psychology
## 17	Creative_Technologies
## 18	Leadership
## 19	Physical_Education
## 20	Adult_Education
## 21	Sexuality_Women_and_Gender_in_Psychology
## 22	Sociology
	Communication_Media_and_Learning_Technologies
## 24	Instructional_Technology_and_Media
## 25	Developmental_Psychology
## 26	School_Psychology
## 27	Curriculum_and_Teaching
## 28	Teaching_English
## 29	Kinesiology
## 30	Mathematics
## 31	Music
## 32	Education_Leadership
## 33	School_Principals
## 34	Art_Education
## 35	Science_Education
## 36	Politics
## 37	${\tt Design_and_Development_of_Digital_Games}$
## 38	${\tt Measurement_Evaluation_and_Statistics}$
## 39	Private_School_Leadership
## 40	Nutrition
## 41	Philosophy

	42	Education_Policy
##		${\tt Early_Childhood_Special_Education}$
##		Arts_Administration
##		Urban_Education
	46	Education_Technology
##	47	Health_Education
##	48	Deaf_and_Hard_of_Hearing
	49	Nursing
##	50	Gifted_Education
##	51	Diabetes_Education
##	52	Social_Studies
##	53	Physiology
##	54	Inclusive_Education
##	55	Psychological_Counseling
##	56	Higher_and_Postsecondary_Education
##	57	Motor_Learning_and_Control
##	58	Bilingual_Bicultural_Education
##	59	College_Advising
##	60	Movement_Science
##	61	Intellectual_Disability_Autism
	62	Economics_and_Education
##		Change_Leadership
	64	Dance_Education
	65	Reading
	66	Early_Childhood_Education
	67	Cognitive_Science
##	68	Cooperation_and_Conflict_Resolution
##	4	PC65
##	1 2	cluster
##	3	Deaf_and_Hard_of_Hearing Bilingual_Bicultural_Education
	4	Neuroscience
##	5	Counseling_Psychology
##	6	Movement_Science
##	7	Music
##	8	Art_Education
##	9	Creative_Technologies
##		Social_Organizational_Psychology
##	11	Spirituality_Mind_Body
	12	International_and_Comparative_Education
	13	Private_School_Leadership
	14	Intellectual_Disability_Autism
	15	Higher_and_Postsecondary_Education
##	16	Communication_Media_and_Learning_Technologies
##	17	Sexuality_Women_and_Gender_in_Psychology
##	18	Behavior_Analysis
##	19	Curriculum_and_Teaching
	20	Clinical_Psychology
	21	Inclusive_Education
	22	School_Psychology
	23	Learning_Analytics
	24	Early_Childhood_Special_Education
	25	Anthropology
##		Motor_Learning_and_Control

## O7	Haalth Edwartian
## 27 ## 28	Health_Education
	Psychological_Counseling
## 29	History
## 30	Measurement_Evaluation_and_Statistics
## 31	Education_Technology
## 32	Politics
## 33	Nursing
## 34	Teaching_English
## 35	Economics_and_Education
## 36	Design_and_Development_of_Digital_Games
## 37	Sociology
## 38	<pre>Instructional_Technology_and_Media</pre>
## 39	Psychology
## 40	Education_Leadership
## 41	Reading
## 42	Nutrition
## 43	Dance_Education
## 44	Leadership
## 45	Kinesiology
## 46	Urban_Education
## 47	Science_Education
## 48	Adult_Education
## 49	Linguistics
## 50	Social_Studies
## 51	Education_Policy
## 52	Mathematics
## 53	Communication_Sciences_and_Disorders
## 54	Diabetes_Education
## 55	Developmental_Psychology
## 56	Physiology
## 57	College_Advising
## 58	Philosophy
## 59	Physical_Education
## 60	English_Education
## 60 ## 61	
	Gifted_Education Arts_Administration
## 62 ## 63	-
## 63	Change_Leadership
## 64	Cognitive_Science
## 65	Cooperation_and_Conflict_Resolution
## 66	School_Principals
## 67	Literacy
## 68	Early_Childhood_Education
##	PC66
## 1	Education_Technology
## 2	Economics_and_Education
## 3	Social_Organizational_Psychology
## 4	Sociology
## 5	Clinical_Psychology
## 6	Education_Policy
## 7	Bilingual_Bicultural_Education
## 8	Urban_Education
## 9	Gifted_Education
## 10	Arts_Administration
## 11	Science_Education
	-

## 12	Counseling_Psychology
## 13	Cognitive_Science
## 14	Cooperation_and_Conflict_Resolution
## 15	cluster
## 16	Adult_Education
## 17	Psychology
## 18	Early_Childhood_Education
## 19	Curriculum_and_Teaching
## 20	Politics
## 21	History
## 22	Inclusive_Education
## 23	College_Advising
## 24	Spirituality_Mind_Body
## 25	Teaching_English
## 26	Health_Education
## 27	Physiology
## 28	Learning_Analytics
## 29	Behavior_Analysis
## 30	SexualityWomen_and_Gender_in_Psychology
## 31	English_Education
## 32	Intellectual_Disability_Autism
## 33	International_and_Comparative_Education
## 34	Neuroscience
## 35	Nutrition
## 36	Literacy
## 37	Anthropology
## 38	Creative_Technologies
## 39	Communication_Sciences_and_Disorders
## 40	Linguistics
## 41	Leadership
## 42	Kinesiology
## 43	Social_Studies
## 44	Measurement_Evaluation_and_Statistics
## 45	Motor_Learning_and_Control
## 46	Art_Education
## 47	Psychological_Counseling
## 48	Movement_Science
	_
## 49 ## 50	Change_Leadership School_Principals
	•
## 51 ## 52	Early_Childhood_Special_Education Private_School_Leadership
## 53	Mathematics
## 54	Nursing
## 55	Communication_Media_and_Learning_Technologies
## 56	Design_and_Development_of_Digital_Games
## 57	Philosophy
## 58	Physical_Education
## 59	Higher_and_Postsecondary_Education
## 60	Dance_Education
## 61	Instructional_Technology_and_Media
## 62	Reading
## 63	Music
## 64	Deaf_and_Hard_of_Hearing
## 65	Education_Leadership

## 66	Diabetes_Education
## 67	School_Psychology
## 68	Developmental_Psychology
##	PC67
## 1	Mathematics
## 2	cluster
## 3	Neuroscience
## 4	MeasurementEvaluation_and_Statistics
## 5	Health_Education
## 6	Physiology
## 7	Developmental_Psychology
## 8	Kinesiology
## 9	Urban_Education
## 10	Spirituality_Mind_Body
## 11	<pre>Instructional_Technology_and_Media</pre>
## 12	Cognitive_Science
## 13	SexualityWomen_and_Gender_in_Psychology
## 14	Counseling_Psychology
## 15	Curriculum_and_Teaching
## 16	Politics
## 17	Clinical_Psychology
## 18	Education_Technology
## 19	Change_Leadership
## 20	Reading
## 21	${\tt Communication_Media_and_Learning_Technologies}$
## 22	Science_Education
## 23	Diabetes_Education
## 24	<pre>Design_and_Development_of_Digital_Games</pre>
## 25	Learning_Analytics
## 26	School_Principals
## 27	School_Psychology
## 28	Leadership
## 29	Adult_Education
## 30	History
## 31	Private_School_Leadership
## 32	Cooperation_and_Conflict_Resolution
## 33	Anthropology
## 34	English_Education
## 35	Social_Organizational_Psychology
## 36	Psychology
## 37	Literacy
## 38	Linguistics
## 39	Movement_Science
## 40	Communication_Sciences_and_Disorders
## 41	Early_Childhood_Special_Education
## 42	Art_Education
## 43	Nursing
## 44	Philosophy
## 45	International_and_Comparative_Education
## 46	Intellectual_Disability_Autism
## 47	Bilingual_Bicultural_Education
## 48	Deaf_and_Hard_of_Hearing
## 49	Inclusive_Education
## 50	Early_Childhood_Education
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##	51	Teaching_English
##	52	Behavior_Analysis
##	53	Education_Leadership
##	54	Music
##	55	Social_Studies
##	56	Arts_Administration
##	57	College_Advising
##	58	Sociology
##	59	Gifted_Education
##	60	Motor_Learning_and_Control
##	61	Nutrition
##	62	Education_Policy
##	63	Psychological_Counseling
##	64	Creative_Technologies
##	65	Dance_Education
##	66	Physical_Education
##	67	Higher_and_Postsecondary_Education
	68	Economics_and_Education
##		PC68
##	1	Change_Leadership
##	2	Creative_Technologies
##	3	Communication_Media_and_Learning_Technologies
##		Spirituality_Mind_Body
##	_	Psychology
##		Movement_Science
	7	Learning_Analytics
	8	English_Education
	9	College_Advising
	10	Leadership
	11	Health_Education
	12	Linguistics
	13	Sociology
	14	Physiology
	15	Inclusive_Education
	16	Reading
##	17	Politics
	18	Design_and_Development_of_Digital_Games
##		Economics_and_Education
##		Nursing
##		Early_Childhood_Education
##		Clinical_Psychology
##		Kinesiology
##		Social_Organizational_Psychology
	25	History
	26	cluster
	2728	$oxed{ t Literacy}$ Arts_Administration
		Arts_Administration Curriculum_and_Teaching
	29	=
	30	Developmental_Psychology
##		Urban_Education
##		Diabetes_Education
##		Dance_Education
##		Measurement_Evaluation_and_Statistics
##	3 5	Cooperation_and_Conflict_Resolution

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## 36
                                    Gifted Education
## 37
                                    Education_Policy
## 38
               Communication Sciences and Disorders
## 39
                                        Anthropology
##
  40
                 Higher_and_Postsecondary_Education
## 41
                      Intellectual Disability Autism
## 42
                                  Physical Education
## 43
                                            Nutrition
## 44
                                       Art_Education
## 45
                          Motor_Learning_and_Control
## 46
                                        Neuroscience
                     Bilingual_Bicultural_Education
## 47
## 48
                                   Science_Education
## 49
                                   School_Principals
## 50
                                   Cognitive_Science
## 51
                 Instructional_Technology_and_Media
## 52
                           Private_School_Leadership
## 53
                                    Teaching English
## 54
                  Early_Childhood_Special_Education
## 55
                            Psychological_Counseling
## 56
          Sexuality__Women_and_Gender_in_Psychology
## 57
                                   Behavior_Analysis
## 58
                               Counseling_Psychology
## 59
                                   School_Psychology
## 60
                                                Music
## 61
                                      Social_Studies
## 62
                            Deaf_and_Hard_of_Hearing
## 63
            International_and_Comparative_Education
                                Education_Leadership
## 64
## 65
                                           Philosophy
## 66
                                          Mathematics
## 67
                                Education_Technology
## 68
                                     Adult_Education
```

Just looking at the highest loading programs in the first few PCs, a few suggestions on why the most loaded factors are together:

- PC1 Economics, Policy, Principals, Politics, Org Psych are people, disciplines, or processes related to CHANGE.
- PC2 Body/Physical/Medical things.
- PC3 HUD things. Math is up there because analytics (HUDK) and stats (HUDM) are mathy. Lower down the list are MSTU stuff and Neuroscience which relate to the CogSci program. Clearest signal here, probably because these are the programs people are familiar with.
- PC4 Language things.
- PC5 ???
- PC6 ???

Looks like things get pretty iffy after 4.

Looking at the lowest loading programs in the first few PCs, a few suggestions on why the least loaded factors are together:

• PC1 - Small picture things relating to concrete subject studies, or specialised instruction. Opposed to 'big picture' of the highest loadings in this component.

- PC2 Abstract things like dance, reading, gifted education, as opposed to concrete body physical things of the highest loadings in this component. Though this pattern is far from clean motor learning and control has the 2nd lowest loading, and dance arguably has a physical aspect.
- PC3 Qualitative disciplines. Some people may have viewed these disciplines as qualitative fields (history, sociology, spirituality, sociology, linguistics) and the highest loadings as quantitative fields (stats, math, analytics).
- PC4 Applied psychology and behaviour. Somehow seen to be very different from language things.
- PC5 ???
- PC6 ???