						tra	ining si	ze = 11,	174						_
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	76 . 32%	28.95%	70.00%	60.53%	44.74%	42.11%	28.95%	18.92%	50.00%	21.62%	8. 11%	28.95%	25.64%	13. 16%	37.00%
preciou@2	64.94%	35.06%	47.62%	46.75%	36.36%	35.06%	20.78%	20.00%	38. 16%	22.67%	18.67%	28.95%	20. 51%	16.88%	32.32%
preciou@3	58.62%	30.43%	43.75%	39.66%	28.45%	30. 17%	20.00%	18.58%	27. 19%	19.64%	16.07%	21.93%	15. 25%	17. 24%	27.64%
preciou@4	52.90%	25.97%	39.53%	36. 13%	25.81%	25. 16%	16.88%	19.87%	21.71%	19.33%	13.33%	18.30%	12.10%	12.90%	24. 28%
preciou@5	49.48%	26. 42%	40.74%	35.05%	22.16%	22.68%	15.54%	16.40%	18.42%	17.11%	12.30%	15. 18%	9.64%	11.40%	22.33%
recall@1	14. 57%	7. 24%	6.25%	22.12%	16.50%	21.62%	17.74%	11.48%	33.33%	14.55%	5. 77%	23.91%	23.81%	16.67%	16.83%
recall@2	25. 13%	17.76%	8.93%	34.62%	27. 18%	36.49%	25.81%	24.59%	50.88%	30.91%	26. 92%	47.83%	38. 10%	43.33%	31.32%
recall@3	34. 17%	23.03%	12.50%	44.23%	32.04%	47.30%	37.10%	34.43%	54.39%	40.00%	34.62%	54.35%	42.86%	66.67%	39.83%
recall@4	41.21%	26. 32%	15. 18%	53.85%	38.84%	52.70%	41.94%	49.18%	57.89%	52.73%	38. 46%	60.87%	45. 24%	66.67%	45. 79%
recall@5	48.24%	33.55%	19.64%	65.38%	41.75%	59.46%	48.39%	50.82%	61.40%	58. 18%	44. 23%	63.04%	45. 24%	73.33%	50.90%
f1-score@1	24.47%	11.58%	11.48%	32.39%	24. 11%	28.57%	22.00%	14.29%	40.00%	17.39%	6. 74%	26. 19%	24.69%	14.71%	23. 13%
f1-score@2	36. 23%	23.58%	15.04%	39.78%	31.11%	35. 76%	23.02%	22.06%	43.61%	26. 15%	22.05%	36.07%	26.67%	24.30%	31.81%
f1-score@3	43.17%	26. 22%	19.44%	41.82%	30. 14%	36.84%	25.99%	24. 14%	36.26%	26.35%	21.95%	31. 25%	22.50%	27.40%	32.64%
f1-score@4	46. 33%	26. 14%	21.94%	43.24%	31.01%	34.06%	24.07%	28.30%	31.58%	28. 29%	19.80%	28. 14%	19.10%	21.62%	31.73%
f1-score@5	48.85%	29.57%	26. 51%	45.64%	28.96%	32.84%	23.53%	24.80%	28.34%	26. 45%	19. 25%	24. 47%	15.90%	19.73%	31.04%
MAP@1	68.14%	14.94%	55.81%	52. 22%	26. 18%	20.84%	15. 15%	6.58%	34. 52%	12.64%	3. 43%	7. 92%	8. 24%	2.46%	23.50%
MAP@2	52.27%	14.06%	34.00%	34.82%	18.87%	15.91%	8.88%	5.56%	22.69%	8.89%	4.04%	8.10%	5. 87%	2.96%	16. 92%
MAP@3	44.40%	11.82%	28.61%	26.90%	14.01%	12.74%	7.27%	4.73%	15.67%	6. 93%	3.30%	6.09%	4. 18%	3.05%	13.55%
MAP@4	38. 42%	9.71%	24. 29%	22.62%	11.72%	10.27%	5.81%	4.69%	12.07%	6.06%	2.66%	4. 95%	3. 23%	2.28%	11.34%
MAP@5	34. 47%	9.24%	23.07%	20. 27%	9.73%	8.82%	4.96%	3.86%	9.88%	5. 16%	2.34%	4.06%	2. 57%	1.96%	10.03%

						tra	ining si	ze = 21,	174						
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	71.05%	86.49%	78.95%	89.19%	94. 59%	76. 32%	64. 10%	52.63%	86.67%
preciou@2	100.00%	100.00%	100.00%	94.81%	90.91%	75 . 32%	45.45%	57.33%	55. 26%	57. 33%	64.00%	50.00%	38. 46%	28.57%	68.39%
preciou@3	97.41%	85.22%	100.00%	70.69%	71.55%	54.31%	33.04%	40.71%	42.98%	43.75%	42.86%	35.09%	27. 12%	18.97%	54. 55%
preciou@4	88.39%	70.13%	100.00%	57. 42%	54.84%	40.65%	25.32%	31.79%	32. 24%	33. 33%	32.00%	26.80%	20. 38%	16. 13%	44.96%
preciou@5	78.87%	57.51%	100.00%	46.91%	44.33%	32.99%	21.24%	25.40%	25. 79%	27. 27%	25. 67%	21.47%	16. 75%	12.95%	38. 37%
recall@1	19.10%	25.00%	8.93%	36. 54%	36.89%	51.35%	43.55%	52.46%	52.63%	60.00%	67. 31%	63.04%	59. 52%	66.67%	45.93%
recall@2	38.69%	50.66%	18.75%	70.19%	67.96%	78.38%	56. 45%	70.49%	73.68%	78. 18%	92. 31%	82.61%	71. 43%	73.33%	65.94%
recall@3	56. 78%	64.47%	28.57%	78.85%	80.58%	85.14%	61.29%	75.41%	85.96%	89.09%	92. 31%	86.96%	76. 19%	73.33%	73.92%
recall@4	68.84%	71.05%	38.39%	85.58%	82.52%	85.14%	62.90%	78.69%	85.96%	90.91%	92. 31%	89.13%	76. 19%	83.33%	77. 93%
recall@5	76.88%	73.03%	48.21%	87.50%	83.50%	86.49%	66. 13%	78.69%	85.96%	92.73%	92. 31%	89.13%	78. 57%	83.33%	80.18%
f1-score@1	32.07%	40.00%	16.39%	53.52%	53.90%	67.86%	54.00%	65.31%	63.16%	71.74%	78.65%	69.05%	61.73%	58.82%	60.04%
f1-score@2	55.80%	67. 25%	31.58%	80.66%	77. 78%	76.82%	50.36%	63.24%	63.16%	66. 15%	75. 59%	62.30%	50.00%	41.12%	67.14%
f1-score@3	71.75%	73.41%	44.44%	74.55%	75.80%	66.32%	42.94%	52.87%	57.31%	58.68%	58. 54%	50.00%	40.00%	30. 14%	62.78%
f1-score@4	77.40%	70.59%	55. 48%	68.73%	65.89%	55.02%	36.11%	45.28%	46.89%	48.78%	47. 52%	41.21%	32. 16%	27.03%	57.02%
f1-score@5	77.86%	64.35%	65.06%	61.07%	57.91%	47.76%	32. 16%	38.40%	39.68%	42.15%	40. 17%	34.60%	27. 62%	22.42%	51.90%
MAP@1	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	70. 23%	77. 18%	77. 25%	85.40%	90.66%	70.03%	55. 48%	47.42%	83.83%
MAP@2	100.00%	100.00%	100.00%	93.42%	90.47%	71.80%	40.72%	49.43%	49.85%	53.34%	59. 93%	42.54%	31. 28%	24. 49%	64.80%
MAP@3	96.85%	84. 46%	100.00%	68.71%	69.41%	50.59%	28. 24%	34. 27%	36.30%	38.47%	40. 13%	29.04%	21. 18%	16. 25%	50.99%
MAP@4	87.12%	68.08%	100.00%	54.36%	52.79%	37.86%	21.25%	26. 10%	27. 22%	28.97%	29. 96%	21.83%	15. 92%	12.51%	41.71%
MAP@5	76. 55%	55. 25%	100.00%	44.01%	42.41%	30.45%	17.20%	20.85%	21.78%	23.41%	24. 03%	17.49%	12. 78%	10.05%	35. 45%

						tra	ining si	ze = 31,	174						
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	97.37%	97.37%	100.00%	100.00%	100.00%	94.74%	84.21%	100.00%	100.00%	94. 59%	97.30%	84. 21%	56. 41%	47.37%	89.54%
preciou@2	96.10%	93.51%	100.00%	97.40%	92.21%	75 . 32%	54. 55%	73.33%	67.11%	66.67%	61.33%	51.32%	38. 46%	27. 27%	71.04%
preciou@3	96.55%	81.74%	100.00%	79.31%	69.83%	55. 17%	40.87%	49.56%	44.74%	45. 54%	41.96%	35.09%	27. 97%	21.55%	56. 42%
preciou@4	92.90%	76.62%	100.00%	63. 23%	58.06%	42.58%	31.17%	37.09%	34. 21%	34.00%	32.00%	26. 14%	22. 29%	17.42%	47.69%
preciou@5	85. 57%	63.21%	100.00%	50. 52%	47.94%	34. 02%	24.87%	29.63%	27. 37%	27. 27%	25. 67%	20.94%	17. 77%	13.99%	40.63%
recall@1	18.59%	24. 34%	8.93%	36. 54%	36.89%	48.65%	51.61%	60.66%	66.67%	63.64%	69. 23%	69.57%	52.38%	60.00%	47.69%
recall@2	37. 19%	47. 37%	18.75%	72.12%	68.93%	78.38%	67. 74%	90.16%	89.47%	90.91%	88. 46%	84. 78%	71.43%	70.00%	69.69%
recall@3	56. 28%	61.84%	28. 57%	88.46%	78.64%	86.49%	75.81%	91.80%	89.47%	92.73%	90. 38%	86.96%	78. 57%	83.33%	77.81%
recall@4	72.36%	77.63%	38. 39%	94. 23%	87. 38%	89.19%	77. 42%	91.80%	91.23%	92.73%	92. 31%	86.96%	83. 33%	90.00%	83. 21%
recall@5	83.42%	80. 26%	48.21%	94. 23%	90. 29%	89.19%	77. 42%	91.80%	91.23%	92.73%	92. 31%	86.96%	83. 33%	90.00%	85. 10%
f1-score@1	31.22%	38.95%	16.39%	53. 52%	53.90%	64. 29%	64.00%	75. 51%	80.00%	76.09%	80.90%	76. 19%	54. 32%	52.94%	62. 24%
f1-score@2	53.62%	62.88%	31.58%	82.87%	78.89%	76.82%	60. 43%	80.88%	76.69%	76. 92%	72. 44%	63.93%	50.00%	39. 25%	70. 36%
f1-score@3	71.11%	70.41%	44.44%	83.64%	73. 97%	67. 37%	53. 11%	64. 37%	59.65%	61.08%	57. 32%	50.00%	41. 25%	34. 25%	65. 41%
f1-score@4	81.36%	77. 12%	55. 48%	75.68%	69.77%	57.64%	44. 44%	52.83%	49.76%	49.76%	47. 52%	40.20%	35. 18%	29. 19%	60.63%
f1-score@5	84.48%	70.72%	65.06%	65.77%	62.63%	49.25%	37.65%	44.80%	42.11%	42.15%	40. 17%	33.76%	29. 29%	24. 22%	55.00%
MAP@1	95. 44%	97.00%	100.00%	100.00%	100.00%	94. 53%	83.08%	100.00%	100.00%	89.34%	94. 73%	78.80%	53. 42%	45.84%	88.01%
MAP@2	93.53%	91. 78%	100.00%	97. 26%	91.87%	71.83%	50.71%	72. 33%	66.01%	61.19%	59.39%	45.07%	31. 39%	23.68%	68. 29%
MAP@3	93.68%	78. 25%	100.00%	78. 25%	67.99%	51.07%	36.00%	48.63%	44.01%	41.54%	40. 29%	30. 48%	21. 58%	16.56%	53. 45%
MAP@4	89.47%	71.00%	100.00%	61.33%	54. 54%	38.87%	27.11%	36. 39%	33. 26%	31.02%	30. 31%	22.71%	16. 54%	12.68%	44.66%
MAP@5	81.73%	58.08%	100.00%	49.00%	44.41%	31.05%	21.63%	29.07%	26.61%	24.88%	24. 31%	18. 19%	13. 18%	10.18%	38.02%

						tra	ining si	ze = 41,	174						
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	97.37%	94.74%	100.00%	100.00%	100.00%	100.00%	84.21%	100.00%	100.00%	94. 59%	100.00%	89.47%	69. 23%	55. 26%	91.78%
preciou@2	98.70%	97.40%	100.00%	98.70%	97.40%	75. 32%	45. 45%	74.67%	60.53%	68.00%	61.33%	51.32%	42. 31%	32.47%	71.69%
preciou@3	98.28%	91.30%	100.00%	80.17%	72.41%	56.03%	34. 78%	49.56%	40.35%	46. 43%	41.96%	34. 21%	29.66%	23. 28%	57.03%
preciou@4	97.42%	75.97%	100.00%	63.87%	55.48%	42.58%	28.57%	37.75%	32. 24%	34.67%	31. 33%	25. 49%	22. 29%	18.06%	47.55%
preciou@5	88.66%	61.14%	100.00%	51.55%	45.36%	34.02%	23. 32%	30.16%	26.84%	27.81%	25. 67%	20. 42%	18. 27%	15.03%	40.59%
recall@1	18.59%	23.68%	8.93%	36. 54%	36.89%	51.35%	51.61%	60.66%	66.67%	63.64%	71. 15%	73.91%	64. 29%	70.00%	49.85%
recall@2	38. 19%	49.34%	18.75%	73.08%	72.82%	78.38%	56. 45%	91.80%	80.70%	92.73%	88. 46%	84.78%	78. 57%	83.33%	70.53%
recall@3	57. 29%	69.08%	28. 57%	89.42%	81.55%	87.84%	64. 52%	91.80%	80.70%	94. 55%	90. 38%	84.78%	83. 33%	90.00%	78. 13%
recall@4	75.88%	76. 97%	38. 39%	95.19%	83.50%	89.19%	70.97%	93.44%	85.96%	94. 55%	90. 38%	84.78%	83. 33%	93.33%	82.56%
recall@5	86. 43%	77.63%	48.21%	96.15%	85.44%	89.19%	72. 58%	93.44%	89.47%	94. 55%	92. 31%	84.78%	85.71%	96.67%	85. 18%
f1-score@1	31.22%	37.89%	16.39%	53. 52%	53.90%	67.86%	64.00%	75. 51%	80.00%	76.09%	83. 15%	80.95%	66. 67%	61.76%	64.61%
f1-score@2	55.07%	65. 50%	31.58%	83.98%	83.33%	76.82%	50. 36%	82.35%	69.17%	78. 46%	72. 44%	63.93%	55.00%	46. 73%	71.10%
f1-score@3	72.38%	78.65%	44.44%	84.55%	76. 71%	68.42%	45. 20%	64. 37%	53.80%	62. 28%	57. 32%	48.75%	43.75%	36. 99%	65. 93%
f1-score@4	85.31%	76. 47%	55. 48%	76. 45%	66.67%	57.64%	40.74%	53.77%	46.89%	50. 73%	46. 53%	39.20%	35. 18%	30. 27%	60.35%
f1-score@5	87. 53%	68.41%	65.06%	67.11%	59.26%	49.25%	35. 29%	45.60%	41.30%	42.98%	40. 17%	32.91%	30. 13%	26.01%	54. 98%
MAP@1	97.30%	90.62%	100.00%	100.00%	100.00%	100.00%	83.76%	100.00%	100.00%	92.15%	100.00%	87. 56%	65. 70%	51.38%	90.61%
MAP@2	97.76%	93. 56%	100.00%	98.52%	97.23%	73. 52%	44.19%	73.99%	59.87%	65. 32%	61.04%	48.92%	37. 18%	27.81%	69.92%
MAP@3	97.10%	87.60%	100.00%	79.04%	71.75%	52. 79%	31. 22%	49.11%	39.91%	44. 25%	41. 26%	32.61%	25. 16%	18.91%	55.05%
MAP@4	95.88%	72.07%	100.00%	62.00%	54. 53%	39.86%	24.14%	37.05%	30.67%	33.04%	30.81%	24. 30%	18. 91%	14.30%	45. 54%
MAP@5	86.79%	57.89%	100.00%	49.85%	44.13%	31.85%	19.40%	29.60%	24.85%	26. 51%	24. 85%	19.47%	15. 18%	11.57%	38.71%

						tra	ining si	ze = 51,	174						
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	100.00%	97.37%	100.00%	100.00%	100.00%	97. 37%	84.21%	100.00%	97.37%	97.30%	100.00%	86.84%	69. 23%	60.53%	92.16%
preciou@2	100.00%	97.40%	100.00%	98.70%	92.21%	79. 22%	50.65%	73.33%	64.47%	65. 33%	62. 67%	53.95%	41.03%	33.77%	72.34%
preciou@3	98.28%	90.43%	100.00%	79.31%	70.69%	54.31%	37.39%	48.67%	46. 49%	44.64%	41.96%	36.84%	27. 97%	23. 28%	57. 16%
preciou@4	94.84%	74.03%	100.00%	61.29%	54.84%	41. 29%	29.22%	36. 42%	35. 53%	33. 33%	32.00%	27. 45%	22. 29%	17.42%	47.14%
preciou@5	89.18%	62.18%	100.00%	50.00%	45.36%	34.02%	23. 32%	29.63%	28.42%	26. 74%	26. 74%	21.99%	18. 27%	14.51%	40.74%
recall@1	19.10%	24. 34%	8.93%	36. 54%	36.89%	50.00%	51.61%	60.66%	64.91%	65. 45%	71. 15%	71.74%	64. 29%	76.67%	50.16%
recall@2	38.69%	49.34%	18.75%	73.08%	68.93%	82.43%	62.90%	90.16%	85.96%	89.09%	90. 38%	89.13%	76. 19%	86.67%	71.55%
recall@3	57. 29%	68.42%	28. 57%	88.46%	79.61%	85.14%	69.35%	90.16%	92.98%	90.91%	90. 38%	91.30%	78. 57%	90.00%	78.65%
recall@4	73.87%	75.00%	38. 39%	91.35%	82. 52%	86.49%	72. 58%	90.16%	94.74%	90.91%	92. 31%	91.30%	83. 33%	90.00%	82.35%
recall@5	86.93%	78.95%	48.21%	93.27%	85. 44%	89.19%	72. 58%	91.80%	94.74%	90.91%	96. 15%	91.30%	85.71%	93.33%	85.61%
f1-score@1	32.07%	38.94%	16.40%	53. 52%	53.90%	66.07%	64.00%	75. 51%	77.89%	78. 26%	83. 14%	78. 57%	66. 67%	67.65%	64.96%
f1-score@2	55. 79%	65.50%	31.58%	83.98%	78.89%	80.79%	56. 11%	80.88%	73.68%	75. 38%	74. 02%	67. 22%	53. 34%	48.60%	71.94%
f1-score@3	72.38%	77.90%	44.44%	83.64%	74.89%	66. 32%	48. 59%	63.22%	61.99%	59.88%	57. 31%	52.50%	41. 25%	36. 99%	66. 20%
f1-score@4	83.05%	74. 51%	55. 48%	73.36%	65.89%	55.90%	41.67%	51.88%	51.68%	48. 78%	47. 53%	42.21%	35. 17%	29. 19%	59.96%
f1-score@5	88.04%	69.57%	65.06%	65.10%	59. 26%	49.25%	35. 30%	44.80%	43.72%	41.32%	41.84%	35. 44%	30. 12%	25. 12%	55. 21%
MAP@1	100.00%	96. 48%	100.00%	100.00%	100.00%	95. 96%	82.71%	100.00%	97. 23%	95.08%	100.00%	85. 46%	58. 20%	55. 38%	90.46%
MAP@2	100.00%	95.65%	100.00%	98.29%	91.73%	76. 55%	47.44%	72.10%	61.67%	63. 19%	61. 68%	50.95%	32. 35%	29.23%	70.06%
MAP@3	97.72%	88.06%	100.00%	78.07%	68.13%	51.89%	33. 28%	47.85%	43.17%	42.87%	41.30%	34. 43%	21.70%	19.68%	54.87%
MAP@4	93.84%	71.41%	100.00%	59.73%	52.20%	39.13%	25. 26%	35.81%	32.66%	32.01%	31.07%	25.65%	16. 66%	14. 73%	45.01%
MAP@5	87.43%	59.08%	100.00%	48.36%	42.46%	31.64%	20.16%	28.78%	26. 13%	25.68%	25. 24%	20.55%	13. 38%	11.92%	38.63%