

Dup-Hunter															
	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%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
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%

Wang															
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	100.00%	94.74%	100.00%	100.00%	100.00%	97.37%	78.95%	100.00%	94.74%	100.00%	97.30%	84.21%	33.33%	52.63%	88.09%
preciou@2	100.00%	97.40%	100.00%	94.81%	85.71%	55.84%	38.96%	62.67%	47.37%	60.00%	60.00%	43.42%	16.67%	25.97%	63.49%
preciou@3	100.00%	69.57%	100.00%	62.93%	56.90%	37.07%	26.09%	41.59%	31.58%	40.18%	40.18%	28.95%	11.02%	17.24%	47.38%
preciou@4	87.74%	51.95%	100.00%	47.10%	42.58%	27.74%	19.48%	31.13%	23.68%	30.00%	30.00%	21.57%	8.28%	12.90%	38.15%
preciou@5	70.10%	41.45%	100.00%	37.63%	34.02%	22.16%	15.54%	24.87%	18.95%	24.06%	24.06%	17.28%	6.60%	10.36%	31.94%
recall@1	19.10%	23.68%	8.93%	36.54%	36.89%	50.00%	48.39%	60.66%	63.16%	67.27%	69.23%	69.57%	30.95%	66.67%	46.50%
recall@2	38.69%	49.34%	18.75%	70.19%	64.08%	58.11%	48.39%	77.05%	63.16%	81.82%	86.54%	71.74%	30.95%	66.67%	58.96%
recall@3	58.29%	52.63%	28.57%	70.19%	64.08%	58.11%	48.39%	77.05%	63.16%	81.82%	86.54%	71.74%	30.95%	66.67%	61.30%
recall@4	68.34%	52.63%	38.39%	70.19%	64.08%	58.11%	48.39%	77.05%	63.16%	81.82%	86.54%	71.74%	30.95%	66.67%	62.72%
recall@5	68.34%	52.63%	48.21%	70.19%	64.08%	58.11%	48.39%	77.05%	63.16%	81.82%	86.54%	71.74%	30.95%	66.67%	63.42%
f1-score@1	32.07%	37.89%	16.40%	53.52%	53.90%	66.07%	60.00%	75.51%	75.79%	80.43%	80.90%	76.19%	32.10%	58.82%	60.87%
f1-score@2	55.79%	65.50%	31.58%	80.66%	73.33%	56.95%	43.17%	69.12%	54.14%	69.23%	70.87%	54.10%	21.67%	37.38%	61.14%
f1-score@3	73.65%	59.93%	44.44%	66.36%	60.28%	45.26%	33.90%	54.02%	42.11%	53.89%	54.88%	41.25%	16.25%	27.40%	53.45%
f1-score@4	76.83%	52.29%	55.48%	56.37%	51.16%	37.55%	27.78%	44.34%	34.45%	43.90%	44.55%	33.17%	13.06%	21.62%	47.44%
f1-score@5	69.21%	46.38%	65.06%	48.99%	44.44%	32.08%	23.53%	37.60%	29.15%	37.19%	37.65%	27.85%	10.88%	17.93%	42.48%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
MAP@1	100.00%	93.71%	100.00%	100.00%	100.00%	96.39%	78.95%	100.00%	94.74%	100.00%	97.30%	83.61%	33.33%	50.88%	87.78%
MAP@2	100.00%	95.08%	100.00%	94.81%	85.71%	55.17%	38.96%	62.67%	47.37%	59.69%	59.66%	42.89%	16.67%	25.11%	63.13%
MAP@3	100.00%	67.90%	100.00%	62.93%	56.90%	36.62%	26.09%	41.59%	31.58%	39.97%	39.95%	28.59%	11.02%	16.67%	47.13%
MAP@4	87.72%	50.71%	100.00%	47.10%	42.58%	27.41%	19.48%	31.13%	23.68%	29.85%	29.83%	21.31%	8.28%	12.47%	37.97%
MAP@5	70.08%	40.46%	100.00%	37.63%	34.02%	21.90%	15.54%	24.87%	18.95%	23.94%	23.93%	17.07%	6.60%	10.02%	31.79%

Ren															
	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%	68.42%	89.19%	84.21%	97.30%	91.89%	78.95%	30.77%	31.58%	83.36%
preciou@2	100.00%	97.40%	100.00%	89.61%	85.71%	51.95%	33.77%	44.00%	42.11%	58.67%	60.00%	39.47%	15.38%	15.58%	59.55%
preciou@3	100.00%	69.57%	100.00%	59.48%	56.90%	34.48%	22.61%	29.20%	28.07%	39.29%	40.18%	26.32%	10.17%	10.34%	44.76%
preciou@4	92.90%	51.95%	100.00%	44.52%	42.58%	25.81%	16.88%	21.85%	21.05%	29.33%	30.00%	19.61%	7.64%	7.74%	36.56%
preciou@5	74.23%	41.45%	100.00%	35.57%	34.02%	20.62%	13.47%	17.46%	16.84%	23.53%	24.06%	15.71%	6.09%	6.22%	30.66%
recall@1	19.10%	24.34%	8.93%	36.54%	36.89%	50.00%	41.94%	54.10%	56.14%	65.45%	65.38%	65.22%	28.57%	40.00%	42.33%
recall@2	38.69%	49.34%	18.75%	66.35%	64.08%	54.05%	41.94%	54.10%	56.14%	80.00%	86.54%	65.22%	28.57%	40.00%	53.13%
recall@3	58.29%	52.63%	28.57%	66.35%	64.08%	54.05%	41.94%	54.10%	56.14%	80.00%	86.54%	65.22%	28.57%	40.00%	55.46%
recall@4	72.36%	52.63%	38.39%	66.35%	64.08%	54.05%	41.94%	54.10%	56.14%	80.00%	86.54%	65.22%	28.57%	40.00%	57.17%
recall@5	72.36%	52.63%	48.21%	66.35%	64.08%	54.05%	41.94%	54.10%	56.14%	80.00%	86.54%	65.22%	28.57%	40.00%	57.87%
f1-score@1	32.07%	38.94%	16.40%	53.52%	53.90%	66.07%	52.00%	67.35%	67.37%	78.26%	76.40%	71.43%	29.63%	35.29%	56.15%
f1-score@2	55.79%	65.50%	31.58%	76.25%	73.33%	52.98%	37.41%	48.53%	48.12%	67.69%	70.87%	49.18%	20.00%	22.43%	56.16%
f1-score@3	73.65%	59.93%	44.44%	62.73%	60.28%	42.10%	29.38%	37.93%	37.43%	52.70%	54.88%	37.50%	15.00%	16.43%	49.54%
f1-score@4	81.35%	52.29%	55.48%	53.29%	51.16%	34.94%	24.07%	31.13%	30.62%	42.92%	44.55%	30.15%	12.06%	12.97%	44.60%
f1-score@5	73.28%	46.38%	65.06%	46.31%	44.44%	29.85%	20.39%	26.40%	25.91%	36.36%	37.65%	25.32%	10.04%	10.77%	40.08%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
MAP@1	100.00%	96.92%	100.00%	100.00%	100.00%	95.84%	68.42%	89.19%	84.21%	96.99%	90.58%	74.12%	30.77%	30.56%	82.69%
MAP@2	100.00%	96.09%	100.00%	89.20%	85.71%	51.09%	33.77%	44.00%	42.10%	57.90%	58.32%	37.06%	15.38%	15.08%	58.98%
MAP@3	100.00%	68.58%	100.00%	59.21%	56.90%	33.92%	22.61%	29.20%	28.07%	38.78%	39.05%	24.71%	10.17%	10.01%	44.37%
MAP@4	92.81%	51.21%	100.00%	44.31%	42.58%	25.38%	16.88%	21.85%	21.05%	28.95%	29.16%	18.41%	7.64%	7.49%	36.27%
MAP@5	74.15%	40.86%	100.00%	35.41%	34.02%	20.28%	13.47%	17.46%	16.84%	23.22%	23.39%	14.75%	6.09%	6.02%	30.43%

Li-TD															
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	97.37%	89.47%	90.00%	63.16%	63.16%	44.74%	65.79%	29.73%	31.58%	10.81%	18.92%	39.47%	43.59%	2.63%	49.32%
preciou@2	89.61%	77.92%	85.71%	50.65%	48.05%	32.47%	45.45%	22.67%	22.37%	5.33%	17.33%	28.95%	25.64%	1.30%	39.53%
preciou@3	82.76%	67.83%	68.75%	38.79%	37.93%	25.00%	37.39%	22.12%	19.30%	4.46%	16.07%	20.18%	16.95%	0.86%	32.74%
preciou@4	70.32%	54.55%	65.12%	31.61%	28.39%	21.29%	31.17%	23.18%	15.13%	4.67%	14.67%	16.34%	13.38%	1.94%	27.98%
preciou@5	63.40%	45.60%	57.41%	26.29%	25.77%	19.07%	24.87%	19.05%	12.11%	4.28%	14.97%	13.61%	12.18%	2.59%	24.37%
recall@1	18.59%	22.37%	8.04%	23.08%	23.30%	22.97%	40.32%	18.03%	21.05%	7.27%	13.46%	32.61%	40.48%	3.33%	21.06%
recall@2	34.67%	39.47%	16.07%	37.50%	35.92%	33.78%	56.45%	27.87%	29.82%	7.27%	25.00%	47.83%	47.62%	3.33%	31.62%
recall@3	48.24%	51.32%	19.64%	43.27%	42.72%	39.19%	69.35%	40.98%	38.60%	9.09%	34.62%	50.00%	47.62%	3.33%	38.43%
recall@4	54.77%	55.26%	25.00%	47.12%	42.72%	44.59%	77.42%	57.38%	40.35%	12.73%	42.31%	54.35%	50.00%	10.00%	43.86%
recall@5	61.81%	57.89%	27.68%	49.04%	48.54%	50.00%	77.42%	59.02%	40.35%	14.55%	53.85%	56.52%	57.14%	16.67%	47.89%
f1-score@1	31.22%	35.79%	14.76%	33.81%	34.04%	30.36%	50.00%	22.45%	25.26%	8.69%	15.73%	35.71%	41.98%	2.94%	29.52%
f1-score@2	50.00%	52.40%	27.07%	43.09%	41.11%	33.11%	50.36%	25.00%	25.56%	6.15%	20.47%	36.07%	33.33%	1.87%	35.14%
f1-score@3	60.95%	58.43%	30.55%	40.91%	40.18%	30.53%	48.59%	28.73%	25.73%	5.98%	21.95%	28.75%	25.00%	1.37%	35.36%
f1-score@4	61.58%	54.90%	36.13%	37.84%	34.11%	28.82%	44.45%	33.02%	22.01%	6.83%	21.79%	25.13%	21.11%	3.25%	34.16%
f1-score@5	62.59%	51.02%	37.35%	34.23%	33.67%	27.61%	37.65%	28.80%	18.63%	6.61%	23.43%	21.94%	20.08%	4.48%	32.30%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	50.00%	100.00%	100.00%	100.00%	50.00%	100.00%	50.00%	12.50%	83.04%
MAP@1	96.07%	86.05%	90.00%	62.29%	51.39%	29.96%	49.60%	18.61%	16.40%	9.09%	7.25%	28.26%	23.95%	0.33%	40.66%
MAP@2	85.64%	71.12%	82.10%	42.01%	34.12%	18.75%	32.25%	11.56%	9.78%	4.48%	5.03%	17.59%	13.49%	0.16%	30.58%
MAP@3	77.20%	59.10%	64.21%	29.95%	25.33%	13.50%	24.52%	9.37%	7.45%	3.05%	4.13%	11.93%	8.92%	0.11%	24.20%
MAP@4	64.31%	46.54%	56.96%	23.23%	18.96%	10.73%	19.49%	8.53%	5.70%	2.35%	3.47%	9.11%	6.79%	0.10%	19.73%
MAP@5	56.20%	38.20%	48.88%	18.87%	15.99%	9.01%	15.55%	6.93%	4.56%	1.91%	3.29%	7.37%	5.62%	0.11%	16.61%

Li-T															
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	86.84%	81.58%	100.00%	89.47%	76.32%	34.21%	65.79%	45.95%	47.37%	62.16%	29.73%	36.84%	30.77%	5.26%	56.59%
preciou@2	77.92%	75.32%	100.00%	68.83%	59.74%	25.97%	46.75%	32.00%	35.53%	40.00%	22.67%	23.68%	21.79%	3.90%	45.29%
preciou@3	65.52%	61.74%	96.88%	53.45%	45.69%	20.69%	35.65%	26.55%	25.44%	32.14%	18.75%	17.54%	15.25%	3.45%	37.05%
preciou@4	60.00%	50.65%	93.02%	41.94%	39.35%	18.06%	29.22%	22.52%	21.71%	24.67%	16.00%	14.38%	12.10%	3.23%	31.92%
preciou@5	53.61%	43.01%	90.74%	35.05%	32.99%	15.98%	24.35%	19.05%	18.42%	21.39%	13.37%	12.04%	10.66%	2.59%	28.09%
recall@1	16.58%	20.39%	8.93%	32.69%	28.16%	17.57%	40.32%	27.87%	31.58%	41.82%	21.15%	30.43%	28.57%	6.67%	25.20%
recall@2	30.15%	38.16%	18.75%	50.96%	44.66%	27.03%	58.06%	39.34%	47.37%	54.55%	32.69%	39.13%	40.48%	10.00%	37.95%
recall@3	38.19%	46.71%	27.68%	59.62%	51.46%	32.43%	66.13%	49.18%	50.88%	65.45%	40.38%	43.48%	42.86%	13.33%	44.84%
recall@4	46.73%	51.32%	35.71%	62.50%	59.22%	37.84%	72.58%	55.74%	57.89%	67.27%	46.15%	47.83%	45.24%	16.67%	50.19%
recall@5	52.26%	54.61%	43.75%	65.38%	62.14%	41.89%	75.81%	59.02%	61.40%	72.73%	48.08%	50.00%	50.00%	16.67%	53.84%
f1-score@1	27.84%	32.63%	16.40%	47.88%	41.14%	23.22%	50.00%	34.70%	37.90%	50.00%	24.72%	33.33%	29.63%	5.88%	34.87%
f1-score@2	43.48%	50.66%	31.58%	58.56%	51.11%	26.49%	51.79%	35.29%	40.60%	46.16%	26.77%	29.50%	28.33%	5.61%	41.30%
f1-score@3	48.25%	53.18%	43.06%	56.37%	48.40%	25.26%	46.33%	34.48%	33.92%	43.11%	25.61%	25.00%	22.50%	5.48%	40.57%
f1-score@4	52.54%	50.98%	51.61%	50.20%	47.28%	24.45%	41.67%	32.08%	31.58%	36.10%	23.76%	22.11%	19.09%	5.41%	39.02%
f1-score@5	52.93%	48.12%	59.04%	45.64%	43.10%	23.13%	36.86%	28.80%	28.34%	33.06%	20.92%	19.41%	17.57%	4.48%	36.92%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	50.00%	100.00%	96.43%
MAP@1	79.29%	75.09%	100.00%	87.19%	63.82%	17.79%	52.26%	33.78%	35.66%	56.75%	15.48%	24.54%	15.88%	3.22%	47.20%
MAP@2	68.66%	65.68%	100.00%	63.03%	46.14%	11.97%	34.40%	20.00%	22.50%	32.94%	9.71%	13.75%	9.51%	1.64%	35.71%
MAP@3	55.81%	51.84%	96.46%	46.68%	34.09%	8.84%	24.67%	14.84%	15.60%	24.04%	7.24%	9.51%	6.45%	1.13%	28.37%
MAP@4	48.80%	41.42%	91.98%	35.83%	27.71%	7.09%	19.30%	11.74%	12.33%	18.12%	5.78%	7.29%	4.93%	0.87%	23.80%
MAP@5	42.33%	34.31%	88.67%	29.23%	22.71%	5.94%	15.69%	9.60%	10.06%	14.92%	4.72%	5.91%	4.05%	0.70%	20.63%

Li-D															
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	89.47%	71.05%	0.00%	60.53%	2.63%	36.84%	52.63%	2.70%	2.63%	2.70%	16.22%	26.32%	20.51%	2.63%	27.63%
preciou@2	85.71%	61.04%	4.76%	29.87%	3.90%	27.27%	38.96%	6.67%	5.26%	1.33%	14.67%	18.42%	14.10%	1.30%	22.38%
preciou@3	75.00%	51.30%	3.13%	23.28%	5.17%	18.97%	28.70%	8.85%	8.77%	0.89%	11.61%	14.91%	11.02%	0.86%	18.75%
preciou@4	62.58%	42.21%	2.33%	18.06%	8.39%	16.13%	22.08%	8.61%	6.58%	0.67%	10.67%	11.76%	12.10%	1.29%	15.96%
preciou@5	51.55%	36.79%	3.70%	14.95%	8.76%	13.40%	19.17%	10.05%	5.79%	0.53%	9.09%	10.99%	9.64%	1.04%	13.96%
recall@1	17.09%	17.76%	0.00%	22.12%	0.97%	18.92%	32.26%	1.64%	1.75%	1.82%	11.54%	21.74%	19.05%	3.33%	12.14%
recall@2	33.17%	30.92%	0.89%	22.12%	2.91%	28.38%	48.39%	8.20%	7.02%	1.82%	21.15%	30.43%	26.19%	3.33%	18.92%
recall@3	43.72%	38.82%	0.89%	25.96%	5.83%	29.73%	53.23%	16.39%	17.54%	1.82%	25.00%	36.96%	30.95%	3.33%	23.58%
recall@4	48.74%	42.76%	0.89%	26.92%	12.62%	33.78%	54.84%	21.31%	17.54%	1.82%	30.77%	39.13%	45.24%	6.67%	27.36%
recall@5	50.25%	46.71%	1.79%	27.88%	16.50%	35.14%	59.68%	31.15%	19.30%	1.82%	32.69%	45.65%	45.24%	6.67%	30.03%
f1-score@1	28.70%	28.42%	0.00%	32.40%	1.42%	25.00%	40.00%	2.04%	2.10%	2.17%	13.49%	23.81%	19.75%	2.94%	16.87%
f1-score@2	47.83%	41.05%	1.50%	25.42%	3.33%	27.81%	43.17%	7.36%	6.01%	1.54%	17.32%	22.95%	18.33%	1.87%	20.51%
f1-score@3	55.24%	44.20%	1.39%	24.55%	5.48%	23.16%	37.29%	11.49%	11.69%	1.20%	15.86%	21.25%	16.25%	1.37%	20.89%
f1-score@4	54.80%	42.48%	1.29%	21.62%	10.08%	21.83%	31.48%	12.26%	9.57%	0.98%	15.85%	18.08%	19.09%	2.16%	20.16%
f1-score@5	50.89%	41.16%	2.41%	19.46%	11.44%	19.40%	29.02%	15.20%	8.91%	0.82%	14.22%	17.72%	15.89%	1.80%	19.06%
MRR	100.00%	100.00%	5.88%	100.00%	5.56%	100.00%	33.33%	2.78%	2.94%	100.00%	12.50%	100.00%	50.00%	2.70%	51.12%
MAP@1	85.24%	60.98%	0.00%	54.54%	0.15%	20.31%	31.38%	0.08%	0.08%	2.70%	2.35%	11.75%	4.89%	0.07%	19.61%
MAP@2	78.61%	46.77%	0.28%	26.91%	0.17%	12.85%	21.03%	0.37%	0.25%	1.33%	2.27%	7.16%	3.28%	0.04%	14.38%
MAP@3	66.54%	36.92%	0.18%	18.67%	0.24%	8.75%	14.92%	0.64%	0.57%	0.89%	1.72%	5.21%	2.41%	0.02%	11.26%
MAP@4	54.36%	29.37%	0.14%	14.11%	0.52%	6.89%	11.28%	0.66%	0.42%	0.67%	1.52%	3.98%	2.29%	0.03%	9.02%
MAP@5	44.32%	24.68%	0.18%	11.36%	0.60%	5.58%	9.33%	0.83%	0.38%	0.53%	1.28%	3.38%	1.83%	0.02%	7.45%

ADA															
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	94.74%	76.32%	100.00%	100.00%	100.00%	76.32%	71.05%	81.08%	76.32%	72.97%	81.08%	68.42%	51.28%	57.89%	79.10%
preciou@2	94.81%	76.62%	95.24%	89.61%	88.31%	62.34%	46.75%	64.00%	56.58%	61.33%	57.33%	48.68%	34.62%	32.47%	64.91%
preciou@3	92.24%	69.57%	96.88%	80.17%	70.69%	50.86%	39.13%	45.13%	39.47%	46.43%	40.18%	36.84%	27.12%	21.55%	54.02%
preciou@4	87.74%	63.64%	93.02%	61.94%	57.42%	39.35%	31.17%	35.10%	31.58%	35.33%	30.67%	28.10%	21.66%	16.13%	45.20%
preciou@5	82.99%	56.48%	92.59%	51.03%	47.42%	32.47%	25.39%	28.57%	25.26%	28.88%	25.67%	23.04%	18.27%	12.95%	39.36%
recall@1	18.09%	19.08%	8.93%	36.54%	36.89%	39.19%	43.55%	49.18%	50.88%	49.09%	57.69%	56.52%	47.62%	73.33%	41.90%
recall@2	36.68%	38.82%	17.86%	66.35%	66.02%	64.86%	58.06%	78.69%	75.44%	83.64%	82.69%	80.43%	64.29%	83.33%	64.08%
recall@3	53.77%	52.63%	27.68%	89.42%	79.61%	79.73%	72.58%	83.61%	78.95%	94.55%	86.54%	91.30%	76.19%	83.33%	74.99%
recall@4	68.34%	64.47%	35.71%	92.31%	86.41%	82.43%	77.42%	86.89%	84.21%	96.36%	88.46%	93.48%	80.95%	83.33%	80.06%
recall@5	80.90%	71.71%	44.64%	95.19%	89.32%	85.14%	79.03%	88.52%	84.21%	98.18%	92.31%	95.65%	85.71%	83.33%	83.85%
f1-score@1	30.38%	30.53%	0.00%	53.52%	53.90%	51.79%	54.00%	61.22%	61.05%	58.70%	67.42%	61.90%	49.38%	64.71%	54.78%
f1-score@2	52.90%	51.53%	30.08%	76.24%	75.56%	63.58%	51.80%	70.59%	64.66%	70.77%	67.72%	60.66%	45.00%	46.73%	64.49%
f1-score@3	67.94%	59.93%	43.06%	84.55%	74.89%	62.11%	50.85%	58.62%	52.63%	62.28%	54.88%	52.50%	40.00%	34.25%	62.80%
f1-score@4	76.84%	64.05%	51.61%	74.13%	68.99%	53.28%	44.44%	50.00%	45.93%	51.71%	45.54%	43.22%	34.17%	27.03%	57.78%
f1-score@5	81.93%	63.19%	60.24%	66.44%	61.95%	47.01%	38.43%	43.20%	38.87%	44.63%	40.17%	37.13%	30.13%	22.42%	53.57%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
MAP@1	94.01%	68.24%	100.00%	100.00%	100.00%	72.50%	56.41%	70.96%	70.96%	63.11%	74.91%	63.56%	40.46%	46.56%	72.98%
MAP@2	91.86%	63.77%	94.26%	87.24%	86.91%	52.92%	35.05%	53.84%	47.33%	48.87%	50.19%	41.11%	24.15%	24.44%	57.28%
MAP@3	88.33%	56.25%	94.94%	75.64%	67.69%	40.63%	26.95%	37.16%	32.28%	35.56%	34.40%	29.29%	17.32%	16.23%	46.62%
MAP@4	83.07%	49.83%	90.74%	58.01%	53.34%	30.96%	20.82%	28.32%	24.86%	26.83%	25.95%	22.06%	13.34%	12.14%	38.59%
MAP@5	77.45%	43.30%	89.53%	47.25%	43.44%	25.13%	16.77%	22.80%	19.89%	21.69%	21.13%	17.80%	10.82%	9.75%	33.34%

BiMPM															
	rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet	average
preciou@1	100.00%	76.32%	100.00%	97.37%	76.32%	78.95%	81.58%	89.19%	89.47%	94.59%	75.68%	73.68%	61.54%	60.53%	82.51%
preciou@2	97.40%	70.13%	100.00%	97.40%	76.62%	61.04%	50.65%	66.67%	55.26%	62.67%	50.67%	48.68%	30.77%	32.47%	64.32%
preciou@3	93.97%	60.00%	96.88%	79.31%	63.79%	48.28%	38.26%	46.90%	40.35%	45.54%	36.61%	33.33%	23.73%	23.28%	52.16%
preciou@4	81.94%	55.84%	97.67%	61.94%	51.61%	37.42%	28.57%	35.76%	30.92%	34.67%	30.00%	26.14%	18.47%	17.42%	43.46%
preciou@5	69.59%	48.70%	98.15%	50.00%	41.75%	31.44%	24.87%	28.57%	24.74%	28.34%	24.60%	20.94%	15.23%	14.51%	37.25%
recall@1	19.10%	19.08%	8.93%	35.58%	28.16%	40.54%	50.00%	54.10%	59.65%	63.64%	53.85%	60.87%	57.14%	76.67%	44.81%
recall@2	37.69%	35.53%	18.75%	72.12%	57.28%	63.51%	62.90%	81.97%	73.68%	85.45%	73.08%	80.43%	57.14%	83.33%	63.06%
recall@3	54.77%	45.39%	27.68%	88.46%	71.84%	75.68%	70.97%	86.89%	80.70%	92.73%	78.85%	82.61%	66.67%	90.00%	72.37%
recall@4	63.82%	56.58%	37.50%	92.31%	77.67%	78.38%	70.97%	88.52%	82.46%	94.55%	86.54%	86.96%	69.05%	90.00%	76.81%
recall@5	67.84%	61.84%	47.32%	93.27%	78.64%	82.43%	77.42%	88.52%	82.46%	96.36%	88.46%	86.96%	71.43%	93.33%	79.73%
f1-score@1	32.07%	30.53%	0.00%	52.11%	41.13%	53.57%	62.00%	67.35%	71.58%	76.09%	62.92%	66.67%	59.26%	67.65%	58.08%
f1-score@2	54.35%	47.16%	31.58%	82.87%	65.56%	62.25%	56.12%	73.53%	63.16%	72.31%	59.84%	60.66%	40.00%	46.73%	63.68%
f1-score@3	69.21%	51.69%	43.06%	83.64%	67.58%	58.95%	49.72%	60.92%	53.80%	61.08%	50.00%	47.50%	35.00%	36.99%	60.63%
f1-score@4	71.75%	56.21%	54.19%	74.13%	62.02%	50.66%	40.74%	50.94%	44.98%	50.73%	44.55%	40.20%	29.15%	29.19%	55.51%
f1-score@5	68.70%	54.49%	63.86%	65.10%	54.55%	45.52%	37.65%	43.20%	38.06%	43.80%	38.49%	33.76%	25.10%	25.11%	50.77%
MRR	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
MAP@1	100.00%	70.12%	100.00%	93.95%	67.49%	71.68%	77.18%	78.94%	87.20%	89.34%	73.00%	55.61%	55.41%	60.18%	77.15%
MAP@2	96.94%	57.97%	100.00%	94.53%	63.25%	51.35%	45.84%	57.66%	51.11%	58.57%	44.83%	35.53%	27.71%	30.86%	58.30%
MAP@3	92.67%	47.35%	96.35%	76.64%	51.48%	38.27%	32.62%	39.83%	35.71%	41.17%	31.16%	24.04%	19.17%	20.92%	46.24%
MAP@4	79.67%	41.68%	96.61%	59.19%	40.80%	29.22%	24.36%	30.07%	27.02%	31.03%	24.15%	18.30%	14.54%	15.66%	38.02%
MAP@5	66.76%	35.42%	96.88%	47.57%	32.86%	23.89%	19.98%	24.03%	21.62%	25.07%	19.53%	14.66%	11.67%	12.67%	32.33%