1 ADDITIONAL RESULTS

Table 1: Effects of code preprocessing pipelines with fine-tuned embeddings.

Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10
Bi-LSTM	Tokenize	0.23 (0.01)	0.13 (0.01)	0.33 (0.01)	0.46 (0.01)
	Tokenize + method name&calls	0.21 (0.01)	0.11 (0.01)	0.30 (0.01)	0.42 (0.01)
	Tokenize + remove stop words	0.25 (0.01)	0.14 (0.01)	0.35 (0.01)	0.46 (0.01)
	Tokenize + remove stop words + stem	0.23 (0.01)	0.13 (0.01)	0.32 (0.01)	0.45 (0.01)
	Tokenize	0.17 (0.01)	0.09 (0.01)	0.23 (0.02)	0.34 (0.01)
DAN	Tokenize + method name&calls	0.15 (0.01)	0.07 (0.01)	0.21 (0.01)	0.32 (0.02)
DAN	Tokenize + remove stop words	0.17 (0.01)	0.08 (0.01)	0.24(0.02)	0.35 (0.01)
	Tokenize + remove stop words + stem	0.16 (0.01)	0.08 (0.01)	0.24 (0.01)	0.35 (0.01)
	(a) COI	NALA-Test			
Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10
	Tokenize	0.64 (0.01)	0.53 (0.02)	0.76 (0.01)	0.83 (0.01)
Bi-LSTM	Tokenize + method name&calls	0.43 (0.01)	0.32 (0.01)	0.53 (0.01)	0.63 (0.01)
	Tokenize + remove stop words	0.64 (0.01)	0.54 (0.01)	0.77 (0.01)	0.84 (0.01)
	Tokenize + remove stop words + stem	0.60 (0.01)	0.49 (0.02)	0.73 (0.01)	0.81 (0.01)
DAN	Tokenize	0.44 (0.01)	0.32 (0.01)	0.58 (0.01)	0.68 (0.01)
	Tokenize + method name&calls	0.28 (0.01)	0.17 (0.01)	0.39 (0.01)	0.49 (0.01)
	Tokenize + remove stop words	0.44 (0.02)	0.31 (0.02)	0.57 (0.02)	0.67 (0.02)
	Tokenize + remove stop words + stem	0.41 (0.02)	0.29 (0.02)	0.55 (0.02)	0.66 (0.02)

(b) GitHub-Test

1

 ${\bf Table~2: Effects~of~NL~preprocessing~pipelines~with~fine-tuned~embeddings.}$

Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10
	Tokenize	0.24 (0.01)	0.15 (0.00)	0.34 (0.01)	0.46 (0.02)
	Tokenize + remove param&return	0.24(0.01)	0.14(0.01)	0.32 (0.01)	0.44(0.01)
Bi-LSTM	Tokenize + first sentence	0.23 (0.01)	0.13 (0.01)	0.32 (0.01)	0.43 (0.01)
	Tokenize + remove stop words	0.25 (0.01)	0.15 (0.01)	0.35 (0.01)	0.47 (0.01)
	Tokenize + remove stop words + stem	0.24 (0.01)	0.14 (0.01)	0.33 (0.01)	0.45 (0.01)
	Tokenize	0.18 (0.02)	0.09 (0.02)	0.24 (0.02)	0.35 (0.02)
	Tokenize + remove param&return	0.17 (0.01)	0.09 (0.01)	0.24(0.01)	0.35 (0.02)
DAN	Tokenize + first sentence	0.16 (0.01)	0.08 (0.01)	0.22 (0.01)	0.33 (0.01)
	Tokenize + remove stop words	0.19 (0.01)	0.10 (0.01)	0.26 (0.01)	0.38 (0.01)
	Tokenize + remove stop words + stem	0.18 (0.01)	0.09 (0.01)	0.25 (0.01)	0.36 (0.01)
	(a) CONA	LA-Test			
Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10
	Tokenize	0.64 (0.01)	0.54 (0.02)	0.76 (0.01)	0.83 (0.01)
Bi-LSTM	Tokenize + remove param&return	0.64 (0.01)	0.53 (0.02)	0.77 (0.01)	0.83 (0.01)
	Tokenize + first sentence	0.63 (0.01)	0.53 (0.01)	0.75 (0.01)	0.82 (0.01)
	Tokenize + remove stop words	0.65 (0.00)	0.55 (0.01)	0.77 (0.01)	0.84 (0.01)
	Tokenize + remove stop words + stem	0.61 (0.01)	0.50 (0.02)	0.75 (0.01)	0.82 (0.01)
	Tokenize	0.43 (0.01)	0.31 (0.01)	0.58 (0.01)	0.69 (0.01)
DAN	Tokenize + remove param&return	0.44 (0.01)	0.32 (0.01)	0.58 (0.02)	0.69 (0.01)
	Tokenize + first sentence	0.42 (0.01)	0.29 (0.01)	0.57 (0.01)	0.67 (0.01)
	Tokenize + remove stop words	0.46 (0.01)	0.34 (0.01)	0.61 (0.01)	0.70 (0.01)
	Tokenize + remove stop words + stem	0.43 (0.02)	0.31 (0.02)	0.58 (0.02)	0.69 (0.02)

Table 3: Effects of code preprocessing pipelines with additional DAN models.

Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10		
	Tokenize	0.13 (0.01)	0.06 (0.01)	0.19 (0.01)	0.29 (0.01)		
DAN-deep	Tokenize + method name&calls	0.12 (0.01)	0.05 (0.01)	0.16 (0.02)	0.25(0.02)		
	Tokenize + remove stop words	0.14(0.01)	0.06 (0.01)	0.19(0.01)	0.29(0.02)		
	Tokenize + remove stop words + stem	0.12 (0.01)	0.05 (0.00)	0.16 (0.02)	0.25 (0.02)		
	Tokenize	0.17 (0.01)	0.09 (0.01)	0.24 (0.02)	0.34 (0.02)		
DAN-wide	Tokenize + method name&calls	0.16 (0.01)	0.07 (0.01)	0.23 (0.01)	0.34(0.01)		
DAN-wide	Tokenize + remove stop words	0.17 (0.01)	0.08 (0.01)	0.25 (0.02)	0.36 (0.02)		
	Tokenize + remove stop words + stem	0.17 (0.01)	0.08 (0.01)	0.23 (0.01)	0.34 (0.02)		
(a) CONALA-Test							
Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10		
	Tokenize	0.30 (0.01)	0.18 (0.01)	0.43 (0.02)	0.56 (0.02)		
DAN Jaan	Tokenize + method name&calls	0.19 (0.01)	0.09 (0.01)	0.26 (0.02)	0.38 (0.02)		
DAN-deep	Tokenize + remove stop words	0.30 (0.02)	0.18 (0.03)	0.42 (0.03)	0.56 (0.03)		
	Tokenize + remove stop words + stem	0.23 (0.02)	0.12 (0.02)	0.35 (0.03)	0.47 (0.03)		
	Tokenize	0.44 (0.02)	0.32 (0.02)	0.58 (0.02)	0.69 (0.02)		
DAN-wide	Tokenize + method name&calls	0.30 (0.01)	0.19 (0.02)	0.41 (0.01)	0.52 (0.01)		
	Tokenize + remove stop words	0.44(0.02)	0.32 (0.02)	0.58 (0.02)	0.68 (0.02)		
	Tokenize + remove stop words + stem	0.38 (0.03)	0.26 (0.03)	0.52 (0.03)	0.64 (0.03)		

Table 4: Effects of NL preprocessing pipelines with additional DAN models.

Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10
	Tokenize	0.14 (0.01)	0.06 (0.00)	0.19 (0.01)	0.29 (0.01)
	Tokenize + remove param&return	0.13 (0.01)	0.05 (0.01)	0.18 (0.01)	0.27 (0.01)
DAN-deep	Tokenize + first sentence	0.12 (0.01)	0.05 (0.01)	0.16 (0.02)	0.26 (0.02)
	Tokenize + remove stop words	0.15 (0.01)	0.07 (0.01)	0.22(0.01)	0.33 (0.01)
	Tokenize + remove stop words + stem	0.14 (0.01)	0.06 (0.01)	0.19 (0.01)	0.30 (0.02)
	Tokenize	0.17 (0.01)	0.09 (0.01)	0.24 (0.02)	0.36 (0.02)
	Tokenize + remove param&return	0.17 (0.01)	0.09 (0.01)	0.24(0.01)	0.35 (0.01)
DAN-wide	Tokenize + first sentence	0.16 (0.01)	0.07 (0.01)	0.23 (0.01)	0.33 (0.02)
	Tokenize + remove stop words	0.19 (0.01)	0.10(0.01)	0.27 (0.01)	0.39 (0.01)
	Tokenize + remove stop words + stem	0.18 (0.01)	0.09 (0.01)	0.25 (0.02)	0.36 (0.02)
	(a) CONAL	A-Test			
Model	Pipeline	MRR	Acc@1	Acc@5	Acc@10
	Tokenize	0.31 (0.02)	0.19 (0.02)	0.43 (0.01)	0.55 (0.02)
	Tokenize + remove param&return	0.29 (0.03)	0.17 (0.02)	0.42(0.03)	0.54 (0.03)
DAN-deep	Tokenize + first sentence	0.29 (0.01)	0.18 (0.01)	0.41 (0.01)	0.55(0.02)
	Tokenize + remove stop words	0.35 (0.01)	0.22 (0.01)	0.48 (0.02)	0.60(0.01)
	Tokenize + remove stop words + stem	0.30 (0.01)	0.18 (0.01)	0.43 (0.02)	0.56 (0.02)
	Tokenize	0.42 (0.02)	0.30 (0.02)	0.56 (0.02)	0.67 (0.02)
	Tokenize + remove param&return	0.44 (0.02)	0.31 (0.02)	0.57 (0.02)	0.68 (0.02)
DAN-wide	Tokenize + first sentence	0.43 (0.01)	0.31 (0.01)	0.56 (0.02)	0.67 (0.01)
	Tokenize + remove stop words	0.47 (0.02)	0.35 (0.03)	0.61 (0.01)	0.70 (0.02)
	Tokenize + remove stop words + stem	0.44 (0.02)	0.32 (0.02)	0.58 (0.01)	0.69 (0.01)

Table 5: Effects of vocabulary size, extended results.

Model Minimum token frequency MRR Acc@1 Acc@5 Acc@10 1 0.24 (0.01) 0.15 (0.00) 0.33 (0.01) 0.45 (0.02) 10 0.25 (0.01) 0.15 (0.01) 0.34 (0.01) 0.46 (0.01) 15 0.24 (0.01) 0.14 (0.01) 0.33 (0.02) 0.46 (0.01) 100 0.22 (0.01) 0.15 (0.01) 0.34 (0.01) 0.47 (0.01) 1000 0.22 (0.01) 0.13 (0.01) 0.34 (0.01) 0.46 (0.02) 1000 0.22 (0.01) 0.13 (0.01) 0.31 (0.02) 0.42 (0.01) 1000 0.16 (0.01) 0.07 (0.01) 0.22 (0.01) 0.31 (0.02) 0.42 (0.01) 1000 0.16 (0.01) 0.07 (0.01) 0.22 (0.01) 0.11 (0.01) 0.29 (0.01) 0.42 (0.01) 101 0.20 (0.01) 0.11 (0.01) 0.27 (0.01) 0.39 (0.01) 100 0.19 (0.00) 0.10 (0.01) 0.27 (0.01) 0.39 (0.01) 1000 0.17 (0.01) 0.08 (0.01) 0.23 (0.01) 0.23 (0.01) 0.23 (0.01) 1000			,			
10	Model	Minimum token frequency	MRR	Acc@1	Acc@5	Acc@10
Bi-LSTM		1	0.24 (0.01)	0.15 (0.00)	0.33 (0.01)	0.45 (0.02)
Bi-LSTM 20 0.25 (0.01) 0.15 (0.01) 0.34 (0.01) 0.47 (0.01) 100 0.24 (0.01) 0.14 (0.01) 0.34 (0.01) 0.34 (0.01) 0.46 (0.02) 1000 0.22 (0.01) 0.13 (0.01) 0.31 (0.02) 0.42 (0.01) 10000 0.16 (0.01) 0.07 (0.01) 0.22 (0.01) 0.34 (0.01) 10 0.21 (0.01) 0.11 (0.01) 0.29 (0.01) 0.40 (0.02) 10 0.20 (0.01) 0.11 (0.01) 0.29 (0.01) 0.39 (0.01) 15 0.20 (0.01) 0.11 (0.01) 0.27 (0.01) 0.39 (0.01) 100 0.20 (0.01) 0.11 (0.01) 0.27 (0.01) 0.39 (0.01) 100 0.19 (0.00) 0.10 (0.01) 0.27 (0.01) 0.39 (0.01) 1000 0.17 (0.01) 0.08 (0.01) 0.23 (0.01) 0.35 (0.01) 1000 0.17 (0.01) 0.84 (0.01) 0.23 (0.01) 0.21 (0.01) 1000 0.67 (0.01) 0.56 (0.01) 0.77 (0.01) 0.84 (0.01) 11 0.65 (0.02) 0.55 (0.02) 0.77 (0.01)		10	0.25 (0.01)	0.15 (0.01)	0.34 (0.01)	0.46 (0.01)
100		15	0.24 (0.01)	0.14 (0.01)	0.33 (0.02)	0.46 (0.01)
1000	Bi-LSTM	20	0.25 (0.01)	0.15 (0.01)	0.34 (0.01)	0.47 (0.01)
10000		100	0.24 (0.01)	0.14(0.01)	0.34 (0.01)	0.46 (0.02)
1		1000	0.22 (0.01)	0.13 (0.01)	0.31 (0.02)	0.42(0.01)
10		10000	0.16 (0.01)	0.07 (0.01)	0.22 (0.01)	0.34 (0.01)
DAN 20		1	0.21 (0.01)	0.11 (0.01)	0.29 (0.01)	0.40 (0.02)
DAN 20 0.20 (0.01) 0.10 (0.01) 0.27 (0.02) 0.39 (0.02) 100 0.19 (0.00) 0.10 (0.00) 0.27 (0.01) 0.38 (0.01) 1000 0.17 (0.01) 0.08 (0.01) 0.23 (0.01) 0.35 (0.01) to 10000 0.09 (0.00) 0.03 (0.00) 0.13 (0.01) 0.21 (0.01) to 2000 All All All All All All All All All		10	0.20 (0.01)	0.11 (0.01)	0.28 (0.02)	0.39 (0.01)
100		15	0.20 (0.01)	0.11 (0.01)	0.27 (0.01)	0.39 (0.01)
1000	DAN	20	0.20(0.01)	0.10(0.01)	0.27 (0.02)	0.39 (0.02)
Model Minimum token frequency MRR Acc@1 Acc@5 Acc@10		100	0.19(0.00)	0.10(0.00)	0.27 (0.01)	0.38 (0.01)
Model Minimum token frequency MRR Acc@1 Acc@5 Acc@10 1 0.65 (0.01) 0.56 (0.01) 0.77 (0.01) 0.84 (0.01) 10 0.67 (0.01) 0.57 (0.01) 0.79 (0.01) 0.86 (0.01) 15 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 100 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 100 0.64 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 1000 0.57 (0.02) 0.47 (0.02) 0.75 (0.02) 0.77 (0.01) 1000 0.57 (0.02) 0.47 (0.02) 0.70 (0.02) 0.77 (0.01) 1000 0.51 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 10 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.64 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.		1000	0.17 (0.01)	0.08(0.01)	0.23 (0.01)	0.35 (0.01)
Model Minimum token frequency MRR Acc@1 Acc@5 Acc@10 1 0.65 (0.01) 0.56 (0.01) 0.77 (0.01) 0.84 (0.01) 10 0.67 (0.01) 0.57 (0.01) 0.79 (0.01) 0.86 (0.01) 15 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) Bi-LSTM 20 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 100 0.64 (0.02) 0.54 (0.02) 0.75 (0.02) 0.77 (0.01) 0.82 (0.01) 1000 0.57 (0.02) 0.47 (0.02) 0.70 (0.02) 0.77 (0.01) 10000 0.43 (0.01) 0.33 (0.01) 0.55 (0.02) 0.77 (0.01) 100 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01)			* *	0.03 (0.00)	0.13 (0.01)	0.21 (0.01)
Bi-LSTM 0.65 (0.01) 0.55 (0.01) 0.77 (0.01) 0.84 (0.01) Bi-LSTM 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) Bi-LSTM 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 100 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 100 0.64 (0.02) 0.54 (0.02) 0.75 (0.02) 0.82 (0.01) 1000 0.57 (0.02) 0.47 (0.02) 0.70 (0.02) 0.77 (0.01) 1000 0.43 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 1 0.51 (0.01) 0.39 (0.01) 0.64 (0.01) 0.73 (0.01) 10 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 100 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		(a) CONALA-Test			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Model	Minimum token frequency	MRR	Acc@1	Acc@5	Acc@10
Bi-LSTM 20		1	0.65 (0.01)	0.56 (0.01)	0.77 (0.01)	0.84 (0.01)
Bi-LSTM 20 0.65 (0.02) 0.55 (0.02) 0.77 (0.01) 0.84 (0.01) 100 0.64 (0.02) 0.54 (0.02) 0.75 (0.02) 0.82 (0.01) 1000 0.57 (0.02) 0.47 (0.02) 0.70 (0.02) 0.77 (0.01) 10000 0.43 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 1 0.51 (0.01) 0.39 (0.01) 0.64 (0.01) 0.73 (0.01) 10 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 100 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		10	0.67 (0.01)	0.57 (0.01)	0.79 (0.01)	0.86 (0.01)
100 0.64 (0.02) 0.54 (0.02) 0.75 (0.02) 0.82 (0.01) 1000 0.57 (0.02) 0.47 (0.02) 0.70 (0.02) 0.77 (0.01) 10000 0.43 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 0.70 (0.02) 0.70 (0.02) 0.70 (0.02) 0.43 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 0.64 (0.02) 0.64 (0.02) 0.73 (0.01) 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 0.49 (0.02) 0.38 (0.02) 0.58 (0.02) 0.68 (0.01) 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		15	0.65 (0.02)	0.55 (0.02)	0.77 (0.01)	0.84(0.01)
1000 0.57 (0.02) 0.47 (0.02) 0.70 (0.02) 0.77 (0.01) 10000 0.43 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 1 0.51 (0.01) 0.39 (0.01) 0.64 (0.01) 0.73 (0.01) 10 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) 100 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)	Bi-LSTM	20	0.65 (0.02)	0.55 (0.02)	0.77 (0.01)	0.84(0.01)
10000 0.43 (0.01) 0.33 (0.01) 0.55 (0.01) 0.64 (0.02) 1 0.51 (0.01) 0.39 (0.01) 0.64 (0.01) 0.73 (0.01) 10 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		100	0.64(0.02)	0.54 (0.02)	0.75 (0.02)	0.82 (0.01)
1 0.51 (0.01) 0.39 (0.01) 0.64 (0.01) 0.73 (0.01) 10 0.50 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.02) 15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		1000	0.57 (0.02)	0.47 (0.02)	0.70 (0.02)	0.77 (0.01)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		10000	0.43 (0.01)	0.33 (0.01)	0.55 (0.01)	0.64 (0.02)
15 0.50 (0.02) 0.38 (0.02) 0.64 (0.02) 0.74 (0.01) DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)	DAN	1	0.51 (0.01)	0.39 (0.01)	0.64 (0.01)	0.73 (0.01)
DAN 20 0.49 (0.02) 0.38 (0.02) 0.63 (0.02) 0.72 (0.01) 100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		10	0.50 (0.02)	0.38 (0.02)	0.63 (0.02)	0.72 (0.02)
100 0.44 (0.01) 0.32 (0.02) 0.58 (0.02) 0.68 (0.01) 1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		15	0.50 (0.02)	0.38 (0.02)	0.64 (0.02)	0.74(0.01)
1000 0.40 (0.01) 0.28 (0.01) 0.52 (0.02) 0.62 (0.01)		20	0.49 (0.02)	0.38 (0.02)	0.63 (0.02)	0.72 (0.01)
		100	0.44 (0.01)	0.32 (0.02)	0.58 (0.02)	0.68 (0.01)
10000 0.22 (0.01) 0.12 (0.01) 0.31 (0.02) 0.42 (0.02)		1000	0.40 (0.01)	0.28 (0.01)	0.52 (0.02)	0.62 (0.01)
		10000	0.22 (0.01)	0.12 (0.01)	0.31 (0.02)	0.42 (0.02)