AGA Results

In this document, we present the missing experimental results in our paper "AGA: An Accelerated Greedy Additional Algorithm for Test Case Prioritization" due to the space limit.

1 Subjects Information

1.1 Open-source Subjects

As we say in our paper, the first part of the subjects consist of 55 open-source projects. Among these projects, 33 are widely used in prior work, the others are the most popular subjects selected from GitHub according to the number of stars. Specifically, we target GitHub subjects whose primary programming language is *Java* and order them according to the number of stars in Jan 2019. Then, we check the first 100 subjects and keep only the ones that are code repository and the required tools (e.g., Maven, Clover, PIT) could work.

All the open-source projects used in this work are written in Java, whose number of lines of code is from 1,621 to 254,284. Each of these projects has a test suite written in JUnit Testing Framework. The detailed information is given in Table 1. It is worth noting that compared with the experimental dataset used in recent TCP work, our dataset is larger and contains more large-scale projects, which can make our experimental results more reliable and convincing.

1.2 Industrial Subjects

To show the practical usage of our approach, we collected industrial subjects from Baidu. Baidu is a famous Internet service provider with over 600M monthly active users. In their regression testing infrastructure, test case prioritization is frequently needed and they have been adopting Greedy Additional (GA) strategy for a long time because of its simple idea and relatively high effectiveness. However, they often complain about the long running time of GA, which deviates from the original intention of TCP, that is to accelerate the process of detecting faults.

To check the performance of our AGA approach in real-world scenarios, we collected 22 versions of five industrial projects from Baidu, each of which is taken as a subject in this study. More specifically, these subjects are collected from Dec. 2017 to Feb. 2018 and Oct. 2018 to Nov. 2018, and all of them are

Table 1: Basic information for open-source subjects

ID	Subjects	SLOC	TLOC	#Test Cases	#Mutants
s_1	DiskLruCache	780	1,030	61	152
s_2^1	gson-fire	895	726	36	520
S-2	gson-fire-v2	1,178	952	47	202
$\begin{array}{c c} \mathcal{S}_3^- \\ \mathcal{S}_4 \end{array}$					
\mathcal{S}_4	jumblr	1,489	1,243	103	167
$egin{array}{c} \mathcal{S}_5 \ \mathcal{S}_6 \ \mathcal{S}_7 \ \mathcal{S}_8 \ \mathcal{S}_9 \end{array}$	java-apns	1,503	1,724	87	412
\mathcal{S}_6	jasmine-maven-plugin	1,671	1,931	102	561
S_7	java-uuid-generator	1,790	2,388	45	346
\mathcal{S}_8	gdx-artemis-master	1,851	1,492	35	961
s_9	jopt-simple	1,924	5,903	727	1,677
s_{10}	protoparser	2,153	3,227	171	864
s_{11}	jackson-datatype-guava	2,217	1,035	73	845
s_{12}^{11}	jackson-datatype-guava-v2	2,366	1,327	80	320
S_{13}	JActor	2,542	4,418	65	56
s_{14}^{10}	spring-retry	2,765	3,419	185	351
s_{15}	scribe-java	2,808	2,536	99	563
s_{16}^{16}	metrics-core	2,835	2,194	150	1,656
s_{17}^{10}	javapoet	2,986	4,399	332	973
s_{18}^{17}	low-gc-membuffers	3,184	9,782	51	780
s_{19}^{18}	lambdaj-master	3,634	4,914	265	3,399
s_{20}^{19}	LastCalc-0.1	4,522	581	32	2,499
s_{21}^{20}	stream-lib	4,835	3,806	141	3,811
\mathcal{S}_{22}^{21}	webbit	4,914	8,463	131	349
s_{23}	commons-pool	5,206	8,232	272	633
	redline-smalltalk-master	5,648	480	43	3,450
s_{24}	la4i	7,086	4,050	625	5,023
s_{25}	redline-smalltalk			240	833
s_{26}		7,212	2,414		
s_{27}	nv-websocket-client	7,351	657	73	277
s_{28}	joss	8,078	6,035	531	1,289
s_{29}^{28}	raml-java-parser-master	8,696	3,005	192	4,506
s_{30}^{23}	raml-java-parser	8,788	5,061	197	1,288
s_{31}	la4j-v2	9,272	4,035	799	3,141
833	commons-io	9,980	19,189	1,081	7,773
s_{33}^{32}	streamex	10,427	7,906	450	3,958
S_{34}	jsoup	10,507	12,037	666	3,157
s_{35}	commons-dbcp	11,592	8,752	560	2,601
s_{36}	rome-1.5.0	11,647	2,705	475	4,929
$s_{37}^{\circ \circ}$	assertj-core	13,361	53,059	2,470	4,571
s_{38}	vraptor-archive	16,910	16,213	1,130	7,245
s_{39}°	mapdb-mapdb-1.0.9	17,589	35,873	1,776	876
s_{40}^{33}	RoaringBitmap	17,807	21,494	1,148	21,319
\mathcal{S}_{41}^{40}	blueflood	19,517	15,774	961	1,854
\mathcal{S}_{42}^{41}	lanterna	20,682	7,724	34	344
\mathcal{S}_{43}^{42}	jackson-core	21,320	10,924	376	6,215
S_{44}	jackson-core jsprit	23,073	18,373	1,250	12,350
\mathcal{S}_{45}	hivemall	28,569	3,975	150	6,557
\mathcal{S}^{45}_{46}	asterisk-java	30,495	4,263	217	3,226
\mathcal{S}_{47}	asterisk-java-v2	31,074	4,258	217	921
S47	restcountries		4,258	40	113
s_{48}		31,324			
s_{49}	chukwa	32,654	8,051	131	569
s_{50}	ews-java-api	45,313	1,328	90	1,782
s_{51}	languagetool	47,589	20,778	719	26,662
s_{52}	OpenTripPlanner-otp-0.20.0	64,718	14,207	379	7,325
s_{53}	hbase-1.2.2	66,630	17,385	434	1,781
s_{54}	commons-math	86,748	90,798	5,082	84,476
s_{55}	camel-core	120,248	134,036	5,623	13,005
	Total	912,045	633,085	31,454	262,295

Table 2: Results of Industrial Subjects

G 1 *	Basic 1	Information	Time cost (s)					
$\mathbf{Subject}^*$	\mathbf{SLOC}^{*}	#Test Cases	$\mathbf{G}\mathbf{A}$	\mathbf{AGA}	FAST	ART-D	GA-S	\mathbf{GE}
\mathcal{I}_1	>500K	4,246	29,278.9102	359.9679 ✓	1,860.1473	543,106.2852	2,680,036.2615	54,969.0830
\mathcal{I}_2	> 200 K	2,546	3,018.6473	89.9239 ✓	398.8814	32,938.6045	315,888.7090	13,887.3160
\mathcal{I}_3	> 200 K	2,566	3,228.2772	86.0066 ✓	417.8356	30,458.8672	304,555.6710	14,124.1435
\mathcal{I}_4	> 200 K	2,550	2,833.4841	80.5940 ✓	383.9494	24,944.4404	265,881.1139	19,345.1543
\mathcal{I}_5	$>200 {\rm K}$	2,556	3,289.5958	94.0641 ✓	428.5125	31,799.7539	366,902.7648	8,424.3798
\mathcal{I}_6	> 500 K	4,123	22,118.0296	$329.4710 \checkmark$	1,439.6848	402,039.4240	1,766,206.5003	49,274.3782
\mathcal{I}_7	> 500 K	4,139	21,963.5968	336.3432 ✓	1,600.3634	411,725.1937	2,390,410.2541	54,897.2351
\mathcal{I}_8	> 200 K	2,529	4,250.2729	89.2680 ✓	446.4625	36,610.5757	461,096.5509	3,857.2345
\mathcal{I}_9	> 500 K	4,134	22,057.8564	$335.8682 \checkmark$	1,450.5679	28,328.2207	2,091,910.4123	37,817.4141
\mathcal{I}_{10}	$>200 {\rm K}$	2,542	3,238.5423	96.6740 ✓	418.7254	769,960.0223	265,087.9653	7,134.1514
\mathcal{I}_{11}	> 500 K	4,133	23,749.9149	348.1437 ✓	1,531.0934	398,946.3216	2,537,854.1564	39,417.0345
\mathcal{I}_{12}	> 500 K	4,137	22,194.6776	342.6023 ✓	1,466.4241	398,254.6365	2,016,031.3451	38,741.9410
\mathcal{I}_{13}	> 500 K	4,128	22,545.8684	$362.5389 \checkmark$	1,470.3869	446,056.7049	2,018,768.3295	49,287.1451
\mathcal{I}_{14}	> 200 K	2,234	571.9417	22.2583 ✓	85.0108	4,999.5140	37,081.3254	487.0905
\mathcal{I}_{15}	> 500 K	2,201	6,517.1065	190.7537 ✓	926.5795	71,541.1456	513,769.5738	19,481.4108
\mathcal{I}_{16}	> 20 K	202	7.4382	3.5816 ✓	9.7204	87.4167	601.2848	42.7104
\mathcal{I}_{17}	> 200 K	2,216	599.1948	16.0822 ✓	85.3307	12,411.9608	32,268.7012	7,015.4581
\mathcal{I}_{18}	> 20 K	299	11.6980	2.2721 ✓	10.5942	83.9378	988.3095	38.6094
\mathcal{I}_{19}	> 500 K	3,993	21,482.4772	335.6216 ✓	1,750.2093	444,997.4857	2,295,089.0447	64,510.4519
\mathcal{I}_{20}	> 200 K	2,206	586.5093	18.7069 ✓	87.0280	6,905.6778	75,574.2453	1,048.8951
\mathcal{I}_{21}	$>\!\!20{\rm K}$	281	8.0470	1.8397 ✓	9.1955	34.1523	610.4776	19.9627
\mathcal{I}_{22}	$> 500 { m K}$	4,034	24,446.3671	335.9041 ✓	1,778.7107	$466,\!512.4680$	2,636,222.8890	52,941.8715
Total	$>6,860 \mathrm{K}$	61,995		22				

written in C. As shown in the first three columns in Table 2, we summarize the SLOC and number of test cases of each subject. The SLOCs range from 20K to 500K while the numbers of test cases range from 202 to 4,246. Besides, we used C-Cover to collect statement coverage for each industrial subject.

2 Impact of iteration number on TCP effectiveness and efficiency

In our paper, we conduct an experiment to see whether the iteration number has large impact on TCP effectiveness and efficiency. Here, we present the complete results on each open-source project.

2.1Effectiveness

In this section, for each project, we present the APFD values of $algo_1, algo_2, \ldots, algo_k$, respectively, where $algo_i$ means the Greedy Additional algorithm runs for i iterations and the remaining test cases are prioritized using Greedy Total.

 S_1 : 0.8809, 0.9071, 0.9063, 0.9070, 0.9070, 0.9070, 0.9070, 0.9070, 0.9070

 S_2 : 0.8369, 0.8381, 0.8380, 0.8380, 0.8380

 S_3 : 0.8868, 0.8856, 0.8848, 0.8848, 0.8848

 S_4 : 0.8505, 0.8509

 S_5 : 0.8527

 S_6 : 0.8101

 S_7 : 0.9045, 0.9056, 0.9059, 0.9059, 0.9059

^{*}We hide project names for the confidential policy.

**We report rough scale of SLOC due to the confidential policy.

 S_8 : 0.8913, 0.8888, 0.8898, 0.8898, 0.8898

 \mathcal{S}_9 : 0.9144, 0.9144

 S_{10} : 0.9514, 0.9516, 0.9517, 0.9517, 0.9518, 0.9518, 0.9518, 0.9518

 S_{11} : 0.8741, 0.8766, 0.8765, 0.8765, 0.8766, 0.8766, 0.8766, 0.8766, 0.8766

 \mathcal{S}_{12} : 0.8854, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864, 0.8864

 \mathcal{S}_{13} : 0.8500, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615, 0.8615

 \mathcal{S}_{14} : 0.9188, 0.9199, 0.9214, 0.9206, 0.9203, 0.9199, 0.9195, 0.9191, 0.9188, 0.9188, 0.9188, 0.9188, 0.9188, 0.9188

 S_{15} : 0.8582

 S_{16} : 0.8010, 0.8021, 0.8025, 0.8031, 0.8031

 \mathcal{S}_{17} : 0.9114, 0.9151, 0.9171, 0.9179, 0.9180, 0.9184, 0.9184, 0.9184, 0.9183, 0.9183, 0.9183, 0.9183, 0.9183, 0.9183

 S_{18} : 0.9026, 0.9028, 0.9028, 0.9028

 S_{19} : 0.9003, 0.9028, 0.9032, 0.9034, 0.9034, 0.9033, 0.9033, 0.9033, 0.9033, 0.9033

 S_{20} : 0.8014, 0.8013

 S_{21} : 0.8353, 0.8324, 0.8320, 0.8328, 0.8328, 0.8328

 $\mathcal{S}_{22} \colon \ 0.8642, \ 0.8654, \ 0.8647, \ 0.8644, \ 0.8643, \ 0.8642, \ 0.8642, \ 0.8642, \ 0.8642$

 S_{23} : 0.8189, 0.8183, 0.8196, 0.8198, 0.8198, 0.8198, 0.8198, 0.8198, 0.8198

 S_{24} : 0.9850, 0.9856, 0.9858, 0.9

 S_{25} : 0.7135, 0.7612, 0.7544, 0.7507, 0.8120, 0.8082, 0.8073, 0.8273, 0.8306, 0.8401, 0.8391, 0.8399, 0.8393, 0.8383, 0.8377, 0.8382, 0.8398, 0.8391, 0.8390, 0.8409, 0.8434, 0.8442, 0.8435, 0.8432, 0.8436, 0.8433, 0.8434, 0.8428, 0.8455, 0.8452, 0.8450, 0.8447, 0.8446, 0.8442, 0.8439, 0.8438, 0.8447, 0.8444, 0.8455,

0.8461, 0.8462, 0.8461, 0.8461, 0.8460, 0.8458, 0.8458, 0.8457, 0.8456, 0.8456,

 $0.8455,\ 0.8454,\ 0.8454,\ 0.8453,\ 0.8453,\ 0.8452,\ 0.8452,\ 0.8451,\ 0.8451,\ 0.8450,\ 0$

0.8450, 0.8449, 0.8453, 0.8453, 0.8452, 0.8452, 0.8451, 0.8451, 0.8450, 0.8450, 0.8449, 0.8449, 0.8449, 0.8449, 0.8448, 0.8448, 0.8448, 0.8448, 0.8448, 0.8447, 0.8447, 0.8447, 0.8487, 0.8489, 0.84

0.8449, 0.8449, 0.8449, 0.8449, 0.8448, 0.8448, 0.8448, 0.8448, 0.8447, 0.8447, 0.8447, 0.8447, 0.8448, 0.8450

 \mathcal{S}_{26} : 0.8322, 0.8331, 0.8337, 0.8339, 0.8339, 0.8339, 0.8339, 0.8339, 0.8339

 \mathcal{S}_{27} : 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614, 0.9614

 \mathcal{S}_{28} : 0.9153, 0.9153, 0.9165, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164, 0.9164

 S_{29} : 0.9482, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490, 0.9490

 S_{30} : 0.9620, 0.9616, 0.9617, 0.9617, 0.9617, 0.9617, 0.9617, 0.9617, 0.9617

 \mathcal{S}_{31} : 0.9511, 0.9464, 0.9416, 0.9430, 0.9430, 0.9428, 0.9427, 0.9426,

 \mathcal{S}_{32} : 0.8889, 0.8906, 0.8909, 0.8909, 0.8909, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911, 0.8911

 S_{33} : 0.8659, 0.8661, 0.8661, 0.8662, 0.8662, 0.8662

 \mathcal{S}_{34} : 0.9277, 0.9320, 0.9324, 0.9327, 0.9327, 0.9328,

 S_{35} : 0.9163, 0.9321, 0.9406, 0.9413, 0.9448, 0.9458, 0.9469, 0.9468, 0.9467, 0.9467, 0.9466, 0.9471, 0.9471, 0.9471, 0.9471, 0.9473, 0.9

 S_{36} : 0.8644, 0.8833, 0.8970, 0.8966, 0.9138, 0.9208, 0.9320, 0.9340, 0.9347, 0.9371, 0.9398, 0.9395, 0.9394, 0.9393, 0.9398, 0.9405, 0.9417, 0.9417, 0.9418

 S_{37} : 0.8508, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507,0.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.85 $0.8507, \ 0.85$ $0.8507, \ 0.85$ 0.8507, 0.850.8507, 0.85 $0.8507, \ 0.85$ 0.8507, 0.850.8507, 0.85 $0.8507, \ 0.85$ 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507,0.8507, 0.850.8507, 0.850.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, $0.8507, \ 0.85$ 0.8507, 0.850.8507, 0.850.8507, 0.850.8507, 0.85

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0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507, 0.8507
                                                                             S_{38}: 0.8657, 0.8657, 0.8657
                                                                                      S_{39}: 0.8679, 0.9476, 0.9511, 0.9543, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545,
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0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545, 0.9545,

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 \mathcal{S}_{40} : 0.9198, 0.9233, 0.9242, 0.9243, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244, 0.9244

 \mathcal{S}_{41} : 0.9040, 0.9093, 0.9097, 0.9103, 0.9106, 0.9105, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106, 0.9106

 S_{42} : 0.8574, 0.8569, 0.8569, 0.8569, 0.8569, 0.8569, 0.8569, 0.8569

 S_{43} : 0.8913, 0.8923, 0.8924, 0.8924, 0.8924, 0.8924

 $\mathcal{S}_{44}:\ 0.9159,\ 0.9221,\ 0.9235,\ 0.9237,\ 0.9237,\ 0.9232,\ 0.9239,\ 0.9239,\ 0.9236,\\ 0.9240,\ 0.9238,\ 0.9256,\ 0.9257,\ 0.9257,\ 0.9256,\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9258,\\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9258,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9257,\ 0.9258,\ 0.9259,\ 0.9261,$

 S_{45} : 0.8466, 0.8464, 0.8464, 0.8464, 0.8464, 0.8464, 0.8464

 \mathcal{S}_{46} : 0.8648, 0.8654, 0.8656, 0.8656, 0.8656, 0.8656, 0.8656, 0.8656, 0.8656

 \mathcal{S}_{47} : 0.8751, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750, 0.8750

 S_{48} : 0.7939, 0.7939, 0.7939, 0.7939

 S_{49} : 0.7997, 0.8010, 0.8009, 0.8009, 0.8009, 0.8009, 0.8009

 \mathcal{S}_{50} : 0.8476, 0.8491, 0.8508, 0.8512, 0.8514, 0.8516, 0.8517, 0.8517, 0.8517, 0.8517, 0.8517, 0.8517, 0.8517

 \mathcal{S}_{51} : 0.8571, 0.8647, 0.8657, 0.8666, 0.8668, 0.8671

 \mathcal{S}_{52} : 0.9530, 0.9544, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542, 0.9542

 \mathcal{S}_{53} : 0.8673, 0.8706, 0.8709, 0.8710, 0.8710, 0.8710, 0.8710, 0.8710, 0.8710, 0.8710

 \mathcal{S}_{54} : 0.9089, 0.9100, 0.9091, 0.9087, 0.9090, 0.9088, 0.9089,

 \mathcal{S}_{55} : 0.9516, 0.9539, 0.9540, 0.9541, 0.9543, 0.9544,

 $\begin{array}{c} 0.9544,\ 0.954$

From the data, we can see that the APFD values vary a little when the iteration number varies, which means a too large iteration number contributes little to the APFD value. This observation supports our claim that we can reduce the original iteration number to a relatively small number while preserving the high effectiveness.

2.2 Efficiency

In this section, for each project, we present the running time (in seconds) of $algo_1, algo_2, \ldots, algo_k$, respectively, where $algo_i$ means the Greedy Additional algorithm runs for i iterations and the remaining test cases are prioritized using Greedy Total.

```
S_1: 0.0504, 0.0641, 0.0729, 0.0784, 0.0811, 0.0828, 0.0837, 0.0840, 0.0841
```

 S_2 : 0.0116, 0.0146, 0.0157, 0.0162, 0.0163

 S_3 : 0.0379, 0.0491, 0.0535, 0.0547, 0.0550

 S_4 : 0.1880, 0.2045

 S_5 : 0.0843

 S_6 : 0.1394

 S_7 : 0.0809, 0.1029, 0.1112, 0.1150, 0.1156

 S_8 : 0.0237, 0.0315, 0.0339, 0.0344, 0.0344

 \mathcal{S}_9 : 14.6908, 15.2266, 15.6251, 15.9723, 16.2364, 16.4655, 16.6605, 16.7692, 16.8597, 16.9390, 17.0070, 17.0603, 17.0767, 17.0926, 17.1081, 17.1231, 17.1376, 17.1516, 17.1651, 17.1781, 17.1907, 17.2029, 17.2146, 17.2258, 17.2365, 17.2467, 17.2564, 17.2657, 17.2745, 17.2828, 17.2855

 S_{10} : 0.3590, 0.4801, 0.5353, 0.5646, 0.5859, 0.5937, 0.5978, 0.5985

 S_{11} : 0.0641, 0.0801, 0.0874, 0.0914, 0.0941, 0.0958, 0.0974, 0.0987, 0.0999, 0.1001

 \mathcal{S}_{12} : 0.1331, 0.1659, 0.1825, 0.1922, 0.1985, 0.2034, 0.2067, 0.2097, 0.2123, 0.2145, 0.2149

 \mathcal{S}_{13} : 0.1964, 0.2611, 0.2897, 0.3097, 0.3205, 0.3280, 0.3324, 0.3353, 0.3369, 0.3370

 \mathcal{S}_{14} : 0.8414, 1.3185, 1.5495, 1.6882, 1.7633, 1.8179, 1.8517, 1.8754, 1.8912, 1.9004, 1.9059, 1.9101, 1.9130, 1.9135

 S_{15} : 0.0675

 S_{16} : 0.3380, 0.3416, 0.3440, 0.3454, 0.3456

 S_{17} : 1.9914, 2.9735, 3.5052, 3.7878, 3.9669, 4.0707, 4.1227, 4.1520, 4.1705, 4.1830, 4.1909, 4.1949, 4.1970, 4.1976

 S_{18} : 0.1527, 0.1671, 0.1702, 0.1707

 \mathcal{S}_{19} : 2.3863, 3.1986, 3.5362, 3.7398, 3.8111, 3.8436, 3.8560, 3.8609, 3.8642, 3.8660, 3.8666

 S_{20} : 0.0271, 0.0285

 S_{21} : 0.8340, 1.0961, 1.1768, 1.2056, 1.2139, 1.2143

 S_{22} : 0.5849, 0.8163, 0.9193, 0.9644, 0.9832, 0.9927, 0.9982, 1.0024, 1.0029

 S_{23} : 4.7146, 6.2094, 6.7748, 7.0984, 7.2422, 7.3091, 7.3435, 7.3670, 7.3913, 7.3944

 \mathcal{S}_{24} : 0.0293, 0.0491, 0.0622, 0.0713, 0.0796, 0.0913, 0.0984, 0.1038, 0.1086, 0.1126, 0.1160, 0.1186, 0.1211, 0.1226, 0.1232, 0.1237, 0.1238

 $\mathcal{S}_{25}\colon 1.2848,\ 2.4932,\ 3.6658,\ 4.7548,\ 5.7596,\ 6.6288,\ 7.3437,\ 7.9768,\ 8.5057,\ 8.9095,\ 9.3065,\ 9.6692,\ 10.0263,\ 10.3779,\ 10.7749,\ 11.0891,\ 11.3993,\ 11.7949,\ 12.0948,\ 12.3904,\ 12.6803,\ 12.9651,\ 13.2457,\ 13.5216,\ 13.7930,\ 14.0599,\ 14.3231,\ 14.5812,\ 14.8348,\ 15.0840,\ 15.3287,\ 15.5690,\ 15.8073,\ 16.0387,\ 16.2655,\ 16.4881,\ 16.7060,\ 16.9194,\ 17.1283,\ 17.3327,\ 17.5327,\ 17.7280,\ 17.9188,\ 18.1050,\ 18.2867,\ 18.4344,\ 18.5796,\ 18.7222,\ 18.8621,\ 18.9997,\ 19.1347,\ 19.2671,\ 19.3968,\ 19.5241,\ 19.6487,\ 19.7708,\ 19.8903,\ 20.0072,\ 20.1215,\ 20.2334,\ 20.3426,\ 20.4492,\ 20.5533,\ 20.6548,\ 20.7537,\ 20.8500,\ 20.9437,\ 21.0349,\ 21.1235,\ 21.2095,\ 21.2929,\ 21.3736,\ 21.4518,\ 21.5273,\ 21.6002,\ 21.6706,\ 21.7383,\ 21.8035,\ 21.8660,\ 21.9259,\ 21.9833,\ 22.0380,\ 22.0901,\ 22.1396,\ 22.1865,\ 22.2307,\ 22.2723,\ 22.3113,\ 22.3477,\ 22.3815,\ 22.4126,\ 22.4411,\ 22.4670,\ 22.4902,\ 22.5108,\ 22.5288,\ 22.5400,\ 22.5502,\ 22.5549,\ \mathcal{S}_{26}\colon\ 3.3623,\ 3.8165,\ 3.9018,\ 3.9339,\ 3.9454,\ 3.9513,\ 3.9563,\ 3.9594,\ 3.9615,\ 3.9620$

 \mathcal{S}_{27} : 0.4400, 0.6170, 0.7171, 0.7807, 0.8229, 0.8462, 0.8637, 0.8754, 0.8817, 0.8853, 0.8873, 0.8878

 S_{28} : 14.3927, 19.7917, 22.6283, 23.9404, 24.5570, 24.8224, 24.9380, 25.0118, 25.0643, 25.0975, 25.1161, 25.1302, 25.1430, 25.1564, 25.1586

 S_{29} : 3.2282, 4.7252, 5.3581, 5.6452, 5.8109, 5.8786, 5.9081, 5.9191, 5.9222

 S_{30} : 2.3742, 3.3614, 3.8224, 4.0232, 4.1435, 4.1981, 4.2209, 4.2336, 4.2390, 4.2395

 S_{31} : 25.1492, 42.4289, 54.9163, 63.8733, 68.8608, 72.6918, 75.5811, 77.6775, 78.7513, 79.7971, 80.6224, 81.2676, 81.7944, 82.3899, 82.8346, 83.2483, 83.5537, 83.7634, 83.9042, 84.0120, 84.0927, 84.1468, 84.1825, 84.2145, 84.2426, 84.2703, 84.2890, 84.3015, 84.3054

 \mathcal{S}_{32} : 153.0957, 201.0579, 218.7986, 228.0523, 233.1286, 235.5030, 237.1574, 238.1448, 238.8023, 239.3401, 239.6719, 239.9191, 240.1302, 240.2296, 240.3084, 240.3205

 S_{33} : 30.5935, 33.3866, 33.7117, 33.7607, 33.7772, 33.7830, 33.7846

 S_{34} : 35.2755, 49.8249, 56.3072, 59.4785, 60.7809, 61.5248, 61.9220, 62.0839, 62.2000, 62.2684, 62.3323, 62.3854, 62.4366, 62.4858, 62.5332, 62.5786, 62.6222, 62.6638, 62.7036, 62.7414, 62.7773, 62.8113, 62.8434, 62.8736, 62.9018, 62.9283, 62.9527, 62.9753, 62.9960, 63.0147, 63.0316, 63.0350

 \mathcal{S}_{35} : 11.1864, 18.6450, 25.2162, 30.2752, 34.5965, 37.7022, 39.9603, 41.6999, 43.2768, 44.5033, 45.5958, 46.3288, 47.0194, 47.6085, 48.0775, 48.5595, 48.9848, 49.3524, 49.6084, 49.8372, 50.0369, 50.2043, 50.3317, 50.4477, 50.5525, 50.6453, 50.7261, 50.7904, 50.8423, 50.8939, 50.9358, 50.9678, 50.9933, 51.0168, 51.0385, 51.0587, 51.0767, 51.0941, 51.0966

 $\mathcal{S}_{36}\colon 15.5974,\ 26.4010,\ 34.2673,\ 41.6620,\ 48.1831,\ 53.9740,\ 60.0339,\ 65.2927,\ 70.4275,\ 75.7401,\ 80.6256,\ 84.9370,\ 89.1388,\ 92.9175,\ 96.2393,\ 100.6009,\ 104.6002,\ 107.8779,\ 110.6553,\ 113.2206,\ 115.6184,\ 117.7884,\ 119.6572,\ 121.1277,\ 122.4974,\ 123.7275,\ 124.6721,\ 125.3627,\ 126.0210,\ 126.4629,\ 126.8797,\ 127.2838,\ 127.5417,\ 127.7382,\ 127.9308,\ 128.1156,\ 128.2947,\ 128.4695,\ 128.6374,\ 128.6612$

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S_{37}: 348.6429, 425.8890, 426.7867, 427.4581, 428.1246, 428.7989, 429.4727,
430.2926, 431.0463, 431.8325, 432.5140, 433.1804, 433.8953, 434.6478, 435.3767,
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705.0020, 705.1177, 705.2324, 705.3462, 705.4593, 705.5713, 705.6824, 705.7926,
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706.7790, 706.8876, 706.9935, 707.0988, 707.2032, 707.3066, 707.4087, 707.4428
   S_{38}: 107.2255, 108.6407, 108.8885, 109.0394
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 $\mathcal{S}_{39}\colon 170.0408,\ 269.1613,\ 340.3796,\ 395.4240,\ 433.2746,\ 467.8119,\ 492.9459,\\ 511.4818,\ 528.6376,\ 543.2314,\ 554.2380,\ 564.2112,\ 573.3909,\ 580.9917,\ 587.0130,\\ 591.8260,\ 596.6626,\ 600.6978,\ 604.2113,\ 607.3338,\ 610.0552,\ 612.9271,\ 615.6003,\\ 618.1542,\ 620.6433,\ 622.1930,\ 623.5757,\ 624.9314,\ 626.2564,\ 627.5778,\ 628.8867,\\ 630.3396,\ 631.5500,\ 632.6421,\ 633.7126,\ 634.9341,\ 636.1033,\ 637.1603,\ 638.1636,\\ 638.9765,\ 639.8029,\ 640.6150,\ 641.3905,\ 642.3556,\ 643.3123,\ 644.1551,\ 644.9523,$

645.6327, 646.3094, 646.9770, 647.6981, 648.6576, 649.3963, 649.9939, 650.5106, 651.0255, 651.5400, 652.0514, 652.6382, 653.2346, 653.7600, 654.3529, 655.0619, 655.6314, 656.1112, 656.5882, 656.6593

 \mathcal{S}_{40} : 144.8071, 203.5979, 230.6923, 243.2056, 248.4747, 250.5133, 251.5861, 252.2128, 252.5334, 252.7727, 252.9300, 252.9951, 253.0272, 253.0491, 253.0558

 \mathcal{S}_{41} : 104.3352, 143.9971, 162.6928, 174.4729, 181.1883, 185.4110, 188.0655, 189.8748, 191.1746, 192.0823, 192.6225, 192.9482, 193.2015, 193.3560, 193.4401, 193.4804, 193.5180, 193.5531, 193.5861, 193.5933

 S_{42} : 0.2544, 0.3268, 0.3490, 0.3646, 0.3773, 0.3870, 0.3937, 0.3975, 0.3979

 S_{43} : 32.1521, 37.5850, 38.4947, 38.6403, 38.6569, 38.6586

 $\mathcal{S}_{44}\colon 124.6057,\ 206.1989,\ 258.6179,\ 292.3406,\ 318.4573,\ 338.8340,\ 357.6794,\ 372.6274,\ 384.0906,\ 392.8428,\ 399.7534,\ 405.2201,\ 410.2681,\ 414.1381,\ 417.5244,\ 421.0558,\ 423.5546,\ 426.0039,\ 428.3116,\ 430.3889,\ 432.4392,\ 434.3951,\ 436.2013,\ 437.9293,\ 439.6121,\ 441.4132,\ 443.4237,\ 444.9808,\ 446.5019,\ 447.8638,\ 449.1986,\ 452.2697,\ 455.0118,\ 456.8946,\ 458.0750,\ 459.1645,\ 460.2211,\ 461.2608,\ 462.2504,\ 463.2032,\ 463.9739,\ 464.8663,\ 465.6153,\ 467.9212,\ 469.0643,\ 469.9781,\ 470.6567,\ 471.7226,\ 472.3642,\ 472.7605,\ 473.0732,\ 473.2894,\ 473.4241,\ 473.5281,\ 473.6399,\ 473.7013,\ 473.7470,\ 473.7977,\ 473.8341,\ 473.8433$

 S_{45} : 5.3013, 6.4968, 6.7520, 6.8139, 6.8341, 6.8433, 6.8486, 6.8498

 \mathcal{S}_{46} : 1.3324, 1.5251, 1.5718, 1.5879, 1.5966, 1.6028, 1.6061, 1.6083, 1.6101, 1.6105

 \mathcal{S}_{47} : 16.7634, 19.2322, 19.7944, 19.9584, 20.0395, 20.0865, 20.1120, 20.1263, 20.1347, 20.1358

 S_{48} : 0.0357, 0.0389, 0.0402, 0.0408, 0.0409

 S_{49} : 5.0685, 5.9322, 6.1436, 6.2371, 6.2910, 6.3265, 6.3305

 \mathcal{S}_{50} : 0.0324, 0.0384, 0.0421, 0.0445, 0.0461, 0.0475, 0.0487, 0.0494, 0.0499, 0.0504, 0.0507, 0.0510, 0.0511

 $\mathcal{S}_{51}\colon 158.8808,\ 226.7898,\ 251.1181,\ 263.5170,\ 269.9064,\ 274.0632,\ 277.4902,\ 278.7852,\ 279.6021,\ 280.2806,\ 280.8869,\ 281.3841,\ 281.7918,\ 282.1305,\ 282.4393,\ 282.6943,\ 282.9340,\ 283.1573,\ 283.3642,\ 283.5355,\ 283.6996,\ 283.8574,\ 284.0081,\ 284.1513,\ 284.2876,\ 284.4169,\ 284.5390,\ 284.6540,\ 284.7621,\ 284.8636,\ 284.9578,\ 285.0448,\ 285.1248,\ 285.1981,\ 285.2642,\ 285.3231,\ 285.3326$

 \mathcal{S}_{52} : 73.3657, 91.7328, 101.4404, 105.6360, 107.8175, 108.9070, 109.4403, 109.8443, 110.1497, 110.3997, 110.5926, 110.7068, 110.7226

 S_{53} : 127.0540, 160.7026, 170.2230, 174.6740, 176.7825, 177.8830, 178.3794, 178.7296, 179.0247, 179.3085, 179.5785, 179.6359

 $\mathcal{S}_{54}\colon 18629.9575, 26164.9477, 29666.8708, 31544.4487, 32638.3881, 33301.2351, \\ 33731.4472, 34037.6406, 34249.1801, 34409.8976, 34524.7132, 34605.2745, 34670.0246, \\ 34715.0275, 34745.2676, 34768.3418, 34791.8894, 34806.0601, 34819.4267, 34830.8051, \\ 34840.4087, 34848.9924, 34856.1130, 34862.9495, 34870.0042, 34876.7258, 34881.2885, \\ 34885.2692, 34888.2113, 34891.1196, 34893.9887, 34896.7631, 34899.6016, 34902.3937, \\ 34905.1476, 34907.8593, 34910.5324, 34913.1689, 34915.7624, 34917.9242, 34920.0729, \\ 34922.1959, 34924.1856, 34926.1803, 34928.1149, 34929.9520, 34931.9469, 34933.8678, \\ 34935.8375, 34937.8476, 34939.8260, 34941.7851, 34942.1603$

 \mathcal{S}_{55} : 22606.1087, 32392.2527, 37798.7516, 41072.2083, 43149.7641, 44582.6927, 45635.4961, 46379.6898, 46950.6157, 47434.4500, 47794.4936, 48078.7050, 48309.3621,

 $48487.6458, 48648.9305, 48781.0347, 48892.7630, 48990.4820, 49059.3434, 49109.6972, \\ 49155.4801, 49194.7795, 49224.1893, 49246.9715, 49264.0911, 49277.8622, 49293.3403, \\ 49303.9250, 49311.6324, 49318.4052, 49324.9033, 49330.0864, 49333.6698, 49337.0947, \\ 49340.8868, 49343.2418, 49346.0084, 49349.1518, 49352.2206, 49355.6237, 49358.1288, \\ 49360.5859, 49363.0011, 49365.7545, 49368.4367, 49371.0541, 49373.2324, 49375.3677, \\ 49377.4810, 49379.5384, 49381.5582, 49383.1409, 49384.7205, 49386.2954, 49387.8504, \\ 49389.3883, 49390.9068, 49392.3923, 49393.8761, 49395.2923, 49396.7237, 49398.1487, \\ 49399.5540, 49399.8693$

From the data, we can see that along with the increase of the iteration number, the time cost also increases, indicating that the iteration number contributes much to the time cost. Therefore, it also supports our proposal to reduce iteration number to improve the efficiency.

3 Comparison with GA

3.1 Comparison based on adjacency list

Since adjacency list is more efficient than adjacency matrix as the algorithm input, we take adjacency list as input in the paper. Please refer to Section 6, 7, and 8 for the experimental results, interpretations, and analyses.

3.2 Comparison based on adjacency matrix

In this section, we present the results based on adjacency matrix, which is missing from the paper due to the space limit. Because the input format does not have any impact on the effectiveness of our algorithm, we only present the efficiency comparison results here.

We first compare the efficiency of GA-first, GA, and AGA, which is shown in Table 3. Each row represents a project and we report the running time of GA-first, GA, and AGA. Similar to the results in the paper, AGA, which has a much lower time complexity than GA, could reduce the time cost promisingly. The average speedup ratio of AGA over GA is 27.72X. Then, following the paper, we divide the projects into small-size projects, middle-size projects, and large-size projects. The average speedup ratio in the three categories is 5.84X, 35.47X, and 51.59X, respectively. Indeed, as adjacency matrix stores much more redundant information than adjacency list, it originally leads to very long running time. Therefore, the improvement that our approach achieves is larger, too. At the same time, on larger projects, the efficiency problem is more severe, and our AGA approach works better.

Then, we compare the efficiency of GA and AGA on industrial projects, which is shown in Table 4. Each row represents a project and we report the running time of GA and AGA. Similar to the results in the paper, AGA could reduce the time cost to a greater extent. The average speedup ratio of AGA over GA is 61.43X. This indicates that AGA is practical in real-world scenarios.

Table 3: Comparison of GA-first, GA, and AGA

ID	GA-first	GA	AGA
S_1	0.0504	0.0841	0.0202
\mathcal{S}_2	0.0116	0.0163	0.0053
S_3	0.0379	0.0550	0.0554
\mathcal{S}_4	0.1880	0.2045	0.0409
S_5	0.0843	0.0843	0.0221
\mathcal{S}_6	0.1394	0.1394	0.0162
\mathcal{S}_7	0.0809	0.1156	0.0330
\mathcal{S}_8	0.0237	0.0344	0.0172
\mathcal{S}_9	14.6908	17.2855	0.6349
\mathcal{S}_{10}	0.3590	0.5985	0.0959
S_{11}	0.0641	0.1001	0.0576
S_{12}	0.1331	0.2149	0.0500
S_{13}	0.1964	0.3370	0.1239
\mathcal{S}_{14}	0.8414	1.9135	0.2088
S_{15}	0.0675	0.0675	0.0137
\mathcal{S}_{16}	0.3380	0.3456	0.0624
S_{17}	1.9914	4.1976	0.3048
\mathcal{S}_{18}	0.1527	0.1707	0.0665
S_{19}	2.3863	3.8666	0.7790
S_{20}	0.0271	0.0285	0.0422
S_{21}	0.8340	1.2143	0.1791
S_{22}	0.5849	1.0029	0.1397
S_{23}	4.7146	7.3944	0.5435
S_{24}	0.0293	0.1238	0.0294
S_{25}	1.2848	22.5549	1.0829
S_{26}	3.3623	3.9620	0.3757
S_{27}	0.4400	0.8878	0.1694
S_{28}	14.3927	25.1586	1.1161
S_{29}	3.2282	5.9222	2.2661
S_{30}	2.3742	4.2395	0.5081
S_{31}	25.1492	84.3054	2.0649
S_{32}	153.0957	240.3205 33.7846	5.1724 1.6924
S_{33}	30.5935	!	
S_{34}	35.2755 11.1864	63.0350 51.0966	2.5955 1.7078
S_{35} S_{36}	15.5974	128.6612	19.3547
S_{37}	348.6429	707.4428	4.0359
S_{38}	107.2255	109.0394	2.1855
S_{39}	170.0408	656.6593	8.0072
S_{40}	144.8071	253.0558	4.3282
S_{41}	104.3352	193.5933	3.6620
S_{42}	0.2544	0.3979	0.2295
S_{43}	32.1521	38.6586	2.1432
S_{44}	124.6057	473.8433	7.2152
S_{45}	5.3013	6.8498	1.0659
S_{46}	1.3324	1.6105	0.2034
S_{47}	16.7634	20.1358	2.0280
S_{48}	0.0357	0.0409	0.0142
S_{49}	5.0685	6.3305	1.1091
S_{50}	0.0324	0.0511	0.0162
S_{51}	158.8808	285.3326	7.5062
S_{52}	73.3657	110.7226	6.8312
S_{53}	127.0540	179.6359	9.7006
	,629.9575	34,942.1603	154.0668
S_{55} 22	,606.1087	49,399.8693	164.2763

Table 4: Comparison of GA and AGA on industrial projects

ID	GA	AGA
\mathcal{I}_1	39,386.9529	705.3581
\mathcal{I}_2	8,707.1104	141.0114
\mathcal{I}_3	8,644.5796	112.5054
\mathcal{I}_4	9,144.3643	120.4061
\mathcal{I}_5	9,105.5180	127.5941
\mathcal{I}_6	35,021.6345	442.6086
\mathcal{I}_7	35,595.7667	523.4757
\mathcal{I}_8	8,860.3135	153.3128
\mathcal{I}_9	35,381.6218	388.7854
\mathcal{I}_{10}	9,267.9660	146.2093
\mathcal{I}_{11}	36,558.5647	450.7237
\mathcal{I}_{12}	35,918.4195	504.2236
\mathcal{I}_{13}	35,411.6647	487.3465
\mathcal{I}_{14}	1,278.2732	16.7977
\mathcal{I}_{15}	9,532.4880	219.6699
\mathcal{I}_{16}	4.9463	1.6006
\mathcal{I}_{17}	1,311.8609	17.4021
\mathcal{I}_{18}	12.1753	2.0372
\mathcal{I}_{19}	33,561.6102	456.4386
\mathcal{I}_{20}	1,312.5403	18.2663
\mathcal{I}_{21}	13.6631	1.7060
\mathcal{I}_{22}	34,293.2925	503.3268

4 Normal Probability Plots

In our paper, we conduct Shapiro-Wilk tests to check the normality of our data. Here, because statistical tests of normality might be impacted by characteristics of the data, we draw the normal probability plots additionally.

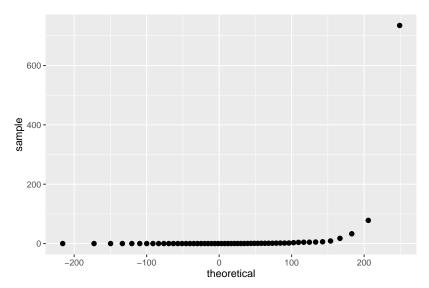


Figure 1: GAF_Time

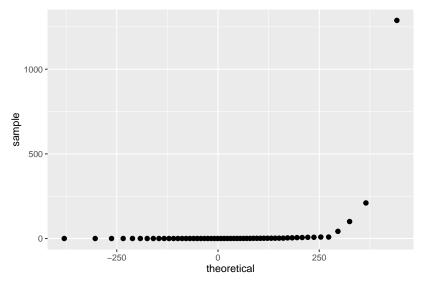


Figure 2: GA_Time

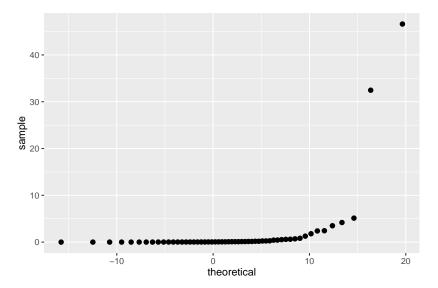


Figure 3: AGA_C_Time

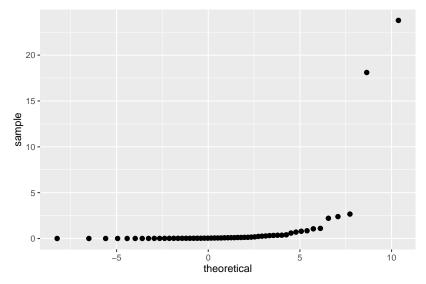


Figure 4: AGA_Time

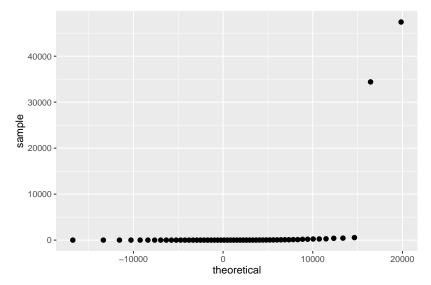


Figure 5: AGA_I_Time

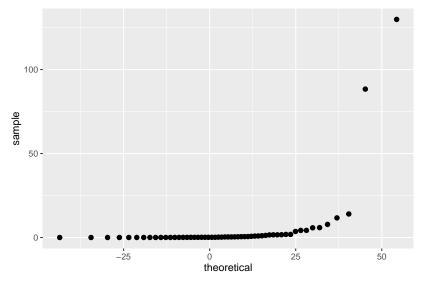


Figure 6: FAST_Time

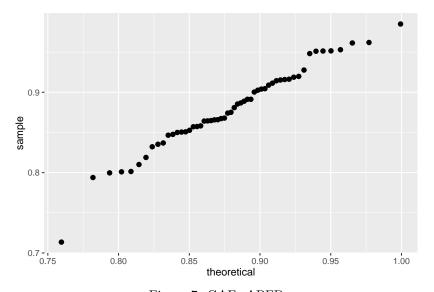


Figure 7: GAF_APFD

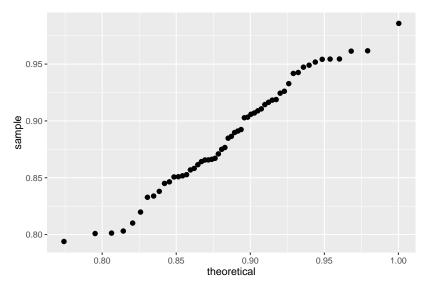


Figure 8: GA_APFD

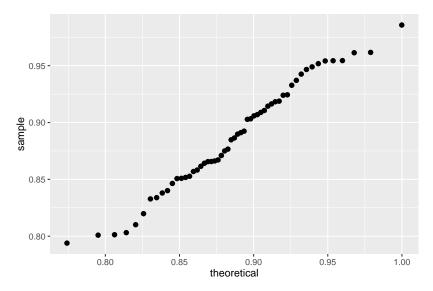


Figure 9: AGA_APFD

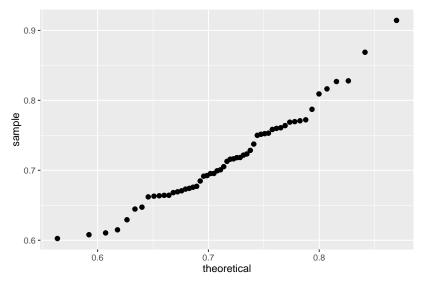


Figure 10: FAST_APFD

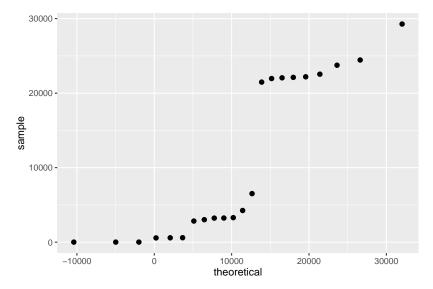


Figure 11: GA_Time_Baidu

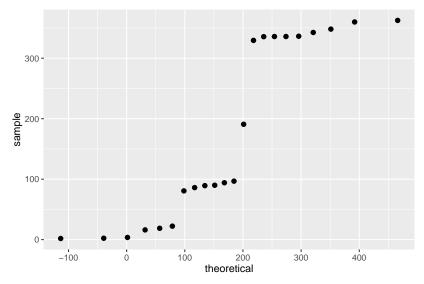


Figure 12: AGA_Time_Baidu

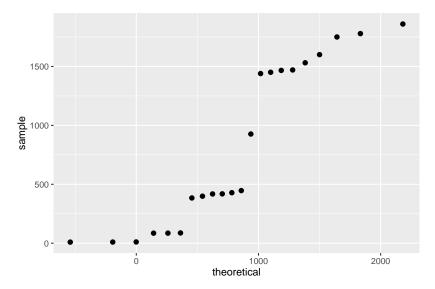


Figure 13: FAST_Time_Baidu