

## Lampiran 1. Surat Izin Pengambilan Data



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI  
UNIVERSITAS NEGERI YOGYAKARTA  
**PROGRAM PASCASARJANA**  
Jalan Colombo Nomor 1 Yogyakarta 55281  
Telp. Direktur (0274) 550835, Asdir/TU (0274) 550836 Fax. (0274)520326  
Laman: pps.uny.ac.id Email: pps@uny.ac.id, humas\_pps@uny.ac.id

Nomor : 4581 /UN34.17/LT/2018  
Hal : Izin Pengambilan Data

≤ April 2018

Yth. Wakil Rektor 1 Universitas Negeri Yogyakarta  
Jl. Colombo No. 1 Karangmalang Yogyakarta

Bersama ini kami mohon dengan hormat, kiranya Bapak/Ibu/Saudara berkenan memberikan izin kepada mahasiswa jenjang S-3 Program Pascasarjana Universitas Negeri Yogyakarta:

Nama	: ANDHITA DESSY WULANSARI, S.SI., M.SI.
NIM	: 15701261012
Program Studi	: Penelitian dan Evaluasi Pendidikan
Konsentrasi	: Pengukuran

untuk melaksanakan kegiatan pengambilan data dalam rangka penulisan disertasi yang dilaksanakan pada:

Waktu	: 15 April s.d 15 Agustus 2018
Lokasi/Objek	: Universitas Negeri Yogyakarta
Judul Penelitian	: Model Logistik dengan Variabel Random Waktu Respon
Pembimbing	: 1. Prof. Kumaidi, MA., Ph.D. 2. Dr. Samsul Hadi, M.Pd., M.T.

Demikian atas perhatian, bantuan dan izin yang diberikan, kami ucapkan terima kasih

Wakil Direktur I,



Dr. Sugito, MA.  
NIP 19600410 198503 1 002

Tembusan:

1. Kepala Kantor Layanan Admisi UNY.
2. Mahasiswa Ybs.



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
UNIVERSITAS NEGERI YOGYAKARTA  
**PROGRAM PASCASARJANA**

Alamat: Karangmulan, Yogyakarta 55281  
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Certificate No.: DSC 00885

Yogyakarta, 9 April 2018

Yth. Kepala Kantor Layanan Admisi  
Universitas Negeri Yogyakarta (UNY)  
di Yogyakarta

Dengan hormat,

Bersama surat ini, saya mahasiswa S3 Program Studi Penelitian dan Evaluasi Pendidikan (PEP), Konsentrasi Pengukuran, Program Pascasarjana UNY, memohon ijin untuk melakukan pengambilan data terkait dengan penelitian disertasi saya.

Nama Mahasiswa : Andhita Dessy Wulansari  
NIM : 15701261012  
Judul Disertasi : Model Logistik dengan Variabel Random Waktu Respon  
Data yang diperlukan :

1. Respon jawaban (benar-salah) tiap peserta tes CBT terhadap item soal ujian masuk UNY Tahun 2017 (*respon pattern*)\*
2. Waktu yang dibutuhkan tiap peserta tes CBT dalam merespon tiap item soal ujian masuk UNY Tahun 2017 (*response times*)\*

\*) Untuk menjaga kerahasiaan / privasi peserta tes, identitas (ID) peserta tes tersebut tidak perlu disertakan, kode ID cukup digantikan dengan nomor urut (jika perlu dirandom)

Demikian surat permohonan ini saya buat dengan sebenarnya, dengan ketentuan bahwa data yang kami peroleh nanti akan digunakan secara murni untuk penelitian. Atas ijinnya saya ucapan terima kasih.

Mengetahui,  
Ketua Program Studi PEP UNY,

Prof. Dr. Badrun Kartowagiran  
NIP. 19530725 197811 1 001

Mahasiswa,

Andhita Dessy Wulansari  
NIM. 15701261012

## Lampiran 2. Surat Izin Penelitian



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI  
UNIVERSITAS NEGERI YOGYAKARTA

Jalan Colombo Nomor 1 Yogyakarta 55281  
Telepon (0274) 586168 pesawat 239, 222, Fax.(0274) 552044, 541242  
Laman: uny.ac.id. E-mail: akademik@uny.ac.id

### SURAT IZIN PENELITIAN

Nomor : 1195/UN34/PM.01:01/2018

Rector of Universitas Negeri Yogyakarta grants permission for research to:

Nama : Andhita Dessy Wulansari, S.Si., M.Si.  
NIM : 15701261012  
Jurusan/Prodi. : Penelitian dan Evaluasi Pendidikan (Konsentrasi: Pengukuran)  
Program Pascasarjana Universitas Negeri Yogyakarta  
Tujuan : Memperoleh data penulisan Disertasi  
Lokasi : Universitas Negeri Yogyakarta  
Waktu : Bulan 15 April s.d. 15 Agustus 2018  
Judul : Model Logistik dengan Variabel Random Waktu Respon

This research permit is issued for whatever purpose it may serve.

Yogyakarta, 16 April 2018

Rektor

o.b. Wakil Rektor I,



Dr. Margana, M.Hum., M.A.

& NIP 19680407199412 1 001

Tembusan:

1. Direktur Program Pascasarjana
2. Kepala Kantor Layanan Admisi
3. Kaprodi. PEP (S3)


  
**KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI**  
**UNIVERSITAS NEGERI YOGYAKARTA**  
**KANTOR LAYANAN ADMISI**

Gedung Rektorat UNY sayap utara lantai 1 Jl. Colombo no. 1 yogyakarta, kodepos 55281  
 Telp: 0274-544049/fax: 0274-520325, e-mail: pmb@uny.ac.id

**LEMBAR DISPOSISI**

Diterima Sekretariat KLA UNY tgl: 19/4 - 2013 Diberikan Sekretariat KLA UNY tgl: 19/4 - 2013

<b>Sifat Surat</b>	<b>Derajat Surat</b>	Tgl Surat :
( <input type="checkbox"/> ) Penting	( <input type="checkbox"/> ) Sangat Segera	No Surat :
( <input checked="" type="checkbox"/> ) Rahasia	( <input checked="" type="checkbox"/> ) Segera	Hal (Kode) :
( <input type="checkbox"/> ) Segera	( <input type="checkbox"/> ) Biasa	
( <input type="checkbox"/> ) Biasa		

Agd Komputer () Scan ()

Tgl	Kepada	Isi Disposisi	Dari	Paraf
19/4/2013	Bp. Aan Abr. Sing	11, 16.	Ka KLA	
	Bp. Riwandar			

**Disposisi :**

- 1. Mohon Pertimbangan
- 2. Mohon Pendapat
- 3. Mohon Keputusan
- 4. Mohon Petunjuk
- 5. Mohon Saran
- 6. Bicarakan
- 7. Teliti / ikuti Perkembangan
- 8. Untuk Perhatian
- 9. Siapkan Konsep
- 10. Siapkan Laporan
- 11. Untuk Diproses
- 12. Selesaikan Sesuai Pembicaraan
- 13. Edarkan
- 14. Ketik / gandakan
- 15. Arsip
- 16. Mohon ditangkap data,
- 17. Jaga rahasiam, melainkan dalam
- 18. Laporan.
- 19. John Silain ke Atiria/  
pmb. - email Resmi



**Lampiran 3. Pola Respon Peserta Tes Item 1-15**

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1
2	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0
3	1	1	0	1	1	1	1	1	1	1	0	0	1	1	0
4	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0
6	1	1	0	1	1	1	1	0	1	1	1	1	1	1	0
7	1	1	0	0	1	1	1	1	1	0	0	1	1	0	0
8	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
9	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
10	1	1	0	1	1	1	0	1	0	1	0	0	1	1	0
11	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
13	1	1	0	0	1	1	1	1	1	1	1	0	1	0	0
14	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0
15	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0
16	0	1	0	1	1	1	1	1	1	1	0	1	1	0	0
17	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
18	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
19	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
20	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
21	0	1	0	1	1	1	0	0	0	1	0	1	0	0	0
22	1	1	0	1	1	1	1	1	0	1	1	0	0	1	0
23	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
24	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
25	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0
26	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
27	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
28	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
29	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
30	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
31	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
32	1	1	0	1	1	0	1	1	0	1	0	1	1	0	0
33	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
34	1	1	0	1	0	1	0	1	1	1	1	1	1	0	0

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
35	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0
36	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
37	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0
38	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0
39	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
40	1	1	0	1	1	0	0	1	0	1	1	0	0	1	0
41	1	1	1	1	1	1	0	1	1	0	1	1	1	0	0
42	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
43	1	1	0	1	1	1	1	1	1	1	0	1	1	0	0
44	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0
45	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0
46	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
47	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
48	0	1	0	1	1	1	0	1	1	1	1	1	1	1	0
49	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0
50	0	1	1	1	1	1	0	1	1	1	1	1	1	0	0
51	1	1	0	1	1	1	0	1	1	1	1	0	1	1	0
52	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0
53	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0
54	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
55	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0
56	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
57	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
58	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
59	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1
60	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
61	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
62	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
63	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0
64	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
65	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
66	1	1	0	1	0	1	1	1	1	1	1	0	0	0	0
67	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
68	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
69	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0
70	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
71	0	0	0	1	1	1	1	1	1	1	0	1	1	1	0
72	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0
73	0	0	0	1	1	1	1	1	1	1		1	0	0	
74	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0
75	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0
76	1	1	0	1	1	1	0	1	1	1	1	0	1	0	0
77	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
78	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
79	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0
80	1	0	0	0	1	1	0	1	1	1	1	0	1	0	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
319	1	0	0	0	1	1	0	1	1	1	0	1	0	0	0
320	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
321	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
322	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0
323	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
324	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0
325	1	1	0	1	1	1	1	1	1	1	0	1	1	0	0
326	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
327	1	1	0	0	1	1	1	1	1	1	0	1	1	0	0
328	1	1	0	1	1	1	1	0	1	1	1	1	1	1	0
329	1	1	1	0	1	1	0	0	0	1	0	0	0	1	0
330	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
331	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
332	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
333	0	1	0	1	1	1	1	0	1	1	1	0	0	0	0
334	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
335	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
336	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0
337	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0
338	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
339	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
340	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
341	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
342	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
343	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
344	1	1	1	1	1	1	1	0	1	1	1	0	1	0	0
345	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1
346	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1
347	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
348	1	1	0	1	1	1	1	0	1	1	0	0	1	1	0
349	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
350	0	1	0	0	1	1	1	1	1	1	1	0	1	0	0
351	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
352	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
353	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0
354	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
355	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0
356	1	0	0	1	1	1	1	1	1	1	1	1	0	1	0
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358	1	1	1	0	1	1	1	1	1	1	1	0	1	0	0
359	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
360	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0
361	1	0	0	1	1	1	1	1	1	1	1	1	0	1	0
362	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0
363	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
364	1	1	0	0	1	1		1	1	1	1	0	0	1	0
365	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1
366	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1
367	0	1	0	1	1	1	0	0	1	1	0	1	1	0	0
368	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
369	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
370	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0
371	1	0	0	1	1	1	1	1	1	1	1	0	1	1	0
372	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
373	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
374	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
375	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
376	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
377	1	1	0	1	1	1	1	1	0	1	1	1	1	0	0
378	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
379	1	1	0	0	1	1	1	1	1	1	1	0	1	1	0

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
380	1	1	0	1	1	1	1	1	1	1	0	1	0	0	0
381	1	1	0	1	1	1	1	1	1	1	0	1	0	0	0
382	1	1	0	1	1	1	0	1	1	1	0	0	0	0	0
383	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
384	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
385	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0
386	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0
387	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
388	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0
389	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
390	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0
391	1	1	0	1	1	1	0	1	0	1	1	1	1	0	0
392	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0
393	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
394	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
395	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
396	1	0	0	1	1	1	1	1	1	1	0	1	1	0	1
397	1	1	0	1	1	1	1	1	1	0	1	0	1	1	0
398	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
637	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
638	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0
639	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
640	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
641	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
642	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
643	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0
644	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
645	1	0	0	1	1	1	1	1	1	0	1	1	1	0	0
646	1	1	0	1	1	1	0	0	1	0	1	0	0	1	0
647	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
648	0	1	0	1	1	1	1	0	0	1	0	0	0	0	0
649	1	1	0	1	1	1	1	1	1	1	0	1	0	0	0
650	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0
651	1	1	0	0	1	1	0	1	1	1	1	0	0	0	0
652	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
653	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
654	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
655	0	1	0	0	1	1	0	0	1	1	1	1	0	0	0
656	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0
657	1	1	0	1	0	1	1	0	1	1	1	1	1	1	0
658	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0
659	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
660	1	0	0	1	1	1	0	1	1	1	1	0	0	1	0
661	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0
662	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
663	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
664	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
665	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0
666	1	0	0	1	1	1	1	1	1	1	1	0	1	1	0
667	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
668	1	0	1	1	1	1	1	1	1	1	1	0	1	1	0
669	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
670	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
671	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
672	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0
673	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0
674	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
675	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
676	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1
677	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
678	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0
679	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
680	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
681	1	1	1	1	1	1	0	1	0	1	1	1	1	1	0
682	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0
683	1	0	0	1	1	1	0	1	1	1	1	1	1	0	0
684	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
685	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0
686	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
687	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0
688	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
689	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
690	1	1	0	1	1	1	0	1	1	1	1	0	1	0	0
691	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0
692	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
693	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0
694	1	1	0	1	1	1	1	1	0	1	0	0	0	0	0
695	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
696	1	1	0	1	1	1	1	1	0	1	1	0	0	1	0
697	1	0	0	1	0	1	1	1	1	1	1	1	1	0	0
698	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
699	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
700	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
701	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
702	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
703	1	1	0	1	1	1	0	1	0	1	1	0	1	1	0
704	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0
705	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
706	1	1	0	1	1	1	0	0	1	0	0	0	1	0	0
707	1	1	0	0	1	1	1	1	1	1	0	0	1	1	0
708	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
709	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
710	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0
711	1	1	0	0	1	1	0	1	1	1	0	1	1	0	1
712	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0
713	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
714	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0
715	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0
716	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
717	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0

**Lampiran 4. Pola Respon Peserta Tes Item 16-30**

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
2	1	0	0	1	1	0	1	1	1	1	0	0	0	1	0
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	0	1	0	1	0	0	1	1	1	1	0	1	0	1	1
5	1	0	1	1	1	0	0	1	1	1	1	1	1	0	0
6	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0
7	0	0	0	1	0	0	1	1	1	0	0	0	1	0	0
8	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	0	0	1	1	0	1	1	1	1	1	1	0	0	0
11	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0
12	1	0	0	0	1	1	1	1	0	1	1	1	1	0	0
13	1	1	1	0	1	1	1	1	0	0	1	0	1	1	1
14	1	0	1	1	1	0	1	1	0	1	1	1	0	1	0
15	0	1	0	0	1	0	1	1	1	1	1	0	1	0	0
16	1	0	1	0	0	0	1	1	1	1	1	1	0	0	0
17	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0
18	1	1	0	1	1	0	0	0	0	1	1	0	1	0	0
19	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
20	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0
21	1	0	0	0	1	0	1	1	0	1	1	1	0	1	1
22	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0
23	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0
24	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
25	0	0	0	0	0	0	0	1	0	1	0	1	1	1	0
26	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0
27	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0
28	1	0	0	1	1	0	1	1	1	1	1	1	0	0	0
29	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
30	1	1	0	0	1	0	1	0	1	1	1	1	1	1	0
31	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
32	0	1	0	1	1	0	1	1	0	1	1	1	1	1	0
33	1	1	0	1	1	0	0	1	1	1	0	1	1	1	0
34	1	0	1	1	1	0	1	1	0	1	0	1	1	0	0

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
35	1	0	0	0	1	0	1	1	1	1	1	1	1	1	0
36	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0
37	0	1	0	0	1	0	1	1	1	1	0	1	0	0	0
38	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0
39	0	0	0	1	1	0	0	0	1	1	0	1	1	0	0
40	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0
41	0	1	1	1	1	0	1	1	0	1	0	0	1	0	0
42	0	1	0	0	1	1	1	1	0	1	1	0	1	0	1
43	1	0	0	0	0	1	1	1	1	1	1	1	0	1	1
44	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1
45	0	1	1	1	1	0	0	1	0	1	1	1	1	0	1
46	1	1	0	1	1	1	1	1	1	1	1	0	0	1	0
47	1	0	0	0	1	0	0	1	1	1	1	1	0	0	0
48	1	0	1	1	1	0	0	0	1	1	1	1	1	0	1
49	1	1	1	1	1	0	1	1	0	1	1	1	0	1	0
50	1	0	0	1	1	0	0	1	1	1	1	1	1	1	0
51	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
52	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
54	1	0	1	1	1	0	1	1	1	1	1	0	0	1	0
55	0	1	0	1	1	1	1	1	0	1	1	0	0	1	1
56	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1
57	1	1	0	0	1	0	1	1	1	1	0	1	0	1	0
58	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0
59	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1
60	0	0	0	1	1	1	1	1	1	1	0	1	0	1	0
61	1	0	1	0	1	0	1	1	1	0	1	1	0	1	0
62	1	0	0	1	1	1	1	0	1	1	1	1	1	1	0
63	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0
64	1	1	1	0	1	0	0	1	1	1	1	0	1	1	0
65	1	0	0	0	1	0	1	1	1	1	1	0	1	0	1
66	1	0	0	0	0	0	0	0	1	1	1	1	1	0	1
67	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1
68	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0
69	1	0	0	1	1	0	1	1	1	1	0	0	0	1	0
70	1	0	1	1	1	0	1	1	1	1	1	1	0	0	1

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
71	0	0	0	1	1	0	0	1	1	1	1	1	0	0	0
72	1	0	0	0	1	1	0	1	1	1	1	0	1	0	0
73	1	0	1	0	1	0	0	0	1	0	0	0	1	0	0
74	0	0	0	1	0	1	0	1	0	1	1	1	1	0	1
75	0	0	0	1	1	0	0	1	0	1	1	1	0	0	0
76	0	0	0	1	1	0	1	1	0	1	1	1	1	1	1
77	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1
78	1	1	1	0	1	0	0	1	1	1	1	0	1	1	0
79	1	1	1	0	1	0	1	1	0	1	1	1	0	1	1
80	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
319	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0
320	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1
321	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1
322	0	0	1	0	1	0	1	1	1	1	1	1	1	1	0
323	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
324	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0
325	1	0	1	1	1	1	0	1	1	1	1	1	1	1	0
326	1	1	1	1	0	0	1	1	0	1	1	1	1	0	0
327	1	1	1	0	1	1	1	0	0	1	0	1	1	0	1
328	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1
329	1	0	0	1	0	1	0	1	1	0	0	0	1	0	0
330	1	1	0	1	1	1	0	0	1	1	1	1	1	0	1
331	1	1	1	1	1	0	1	1	0	1	1	0	1	0	0
332	1	1	1	0	1	0	1	1	1	0	1	0	1	0	1
333	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
334	1	1	0	0	1	1	0	1	1	1	1	0	0	0	1
335	1	1	0	0	1	0	0	1	1	1	1	1	0	1	1
336	0	1	0	1	1	0	0	1	0	0	0	1	0	1	0
337	1	1	0	0	0	0	0	1	1	1	1	1	0	1	0
338	0	0	0	1	0	0	1	1	1	1	1	1	1	0	0
339	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
340	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0
341	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0
342	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0
343	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
344	1	0	0	0	1	0	0	1	0	1	1	1	0	1	0
345	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0
346	1	0	1	0	1	0	1	1	1	1	0	1	0	0	0
347	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0
348	1	1	0	0	1	1	1	1	0	1	1	1	0	0	0
349	1	0	0	1	1	0	0	1	0	1	0	1	1	0	0
350	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0
351	0	1	1	0	1	0	1	0	0	1	1	0	1	0	0
352	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1
353	1	0	1	1	1	1	1	1	0	1	1	1	0	1	1
354	1	1	0	0	1	0	1	1	1	1	0	1	1	1	0
355	1	1	1	1	1	0	0	1	0	1	1	1	1	0	0
356	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
357	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0
358	0	0	0	1	1	0	1	0	1	1	1	0	0	1	1
359	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
360	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0
361	1	1	1	0	1	1	0	1	1	1	0	1	0	0	0
362	1	1	0	0	1	0	1	1	1	0	1	1	1	1	0
363	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0
364	1	0	0	1	1	0	1	1	0	1	0	0	0	1	0
365	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0
366	1	1	0	1	1	0	1	1	0	1	1	1	0	0	0
367	1	1	0	0	1	1	0	1	1	1	0	1	1	0	0
368	1	1	1	1	1	0	1	1	1	1	1	0	0	1	0
369	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0
370	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
371	1	0	0	0	1	0	0	1	1	1	1	1	0	1	1
372	1	0	0	0	0	0	0	1	0	1	1	1	1	1	1
373	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1
374	1	0	0	0	1	0	1	1	0	1	1	1	0	1	0
375	1	1	0	0	0	0	0	1	1	1	1	1	0	1	0
376	1	0	0	1	0	1	1	1	1	1	1	1	0	1	0
377	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1
378	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
379	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
380	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1
381	1	0	0	1	1	1	1	1	1	1	0	1	1	1	0
382	1	0	0	1	1	0	1	1	0	1	0	1	0	0	0
383	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
384	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
385	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0
386	0	0	0	0	1	0	1	1	1	1	1	0	1	1	0
387	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0
388	1	1	1	1	1	0	1	1	0	1	1	0	1	0	0
389	1	0	1	1	1	1	1	1	0	0	1	0	1	0	0
390	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
391	1	1	1	0	1	1	1	1	1	1	1	0	1	0	0
392	1	1	0	1	1	1	1	1	0	1	0	0	1	1	1
393	1	0	1	0	1	1	0	1	1	1	1	1	0	0	1
394	0	1	1	1	1	0	1	1	0	1	0	1	1	0	0
395	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0
396	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1
397	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0
398	0	0	0	1	1	1	0	0	1	1	1	0	1	0	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
637	0	0	0	1	1	1	0	0	1	1	1	0	1	0	0
638	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1
639	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
640	0	1	0	1	1	0	0	0	0	1	1	1	1	0	1
641	1	0	1	1	1	0	1	1	1	1	1	1	0	1	0
642	1	0	1	0	1	1	1	1	0	1	1	1	1	1	0
643	1	1	0	0	1	1	1	1	1	1	1	0	1	1	0
644	0	1	0	0	1	1	1	1	1	1	1	1	0	0	1
645	1	0	0	0	1	1	0	0	0	0	0	1	0	0	1
646	0	0	1	1	1	0	1	1	0	1	1	1	0	0	0
647	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0
648	0	1	0	1	1	0	1	1	1	1	0	1	1	0	0
649	1	1	0	0	0	0	1	1	0	1	1	1	0	0	0
650	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
651	1	0	1	0	1	1	0	1	0	1	0	1	0	1	0
652	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
653	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0
654	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1
655	1	0	0	0	1	0	1	1	0	1	0	1	0	1	0
656	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
657	1	1	0	1	1	0	0	1	0	1	1	1	1	1	0
658	1	0	1	0	1	1	1	1	1	1	1	1	1	0	0
659	1	0	1	1	1	0	1	1	0	1	1	1	1	1	0
660	0	1	0	1	1	0	0	1	0	0	1	1	1	0	0
661	1	0	0	1	1	0	0	1	1	1	1	1	0	0	0
662	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1
663	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
664	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
665	1	0	0	0	1	0	1	1	1	1	1	0	1	0	1
666	0	0	0	0	1	0	0	1	1	1	1	1	0	0	1
667	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0
668	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0
669	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1
670	1	0	1	1	1	0	0	1	0	1	1	1	1	0	1
671	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
672	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
673	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1
674	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1
675	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0
676	1	1	1	1	1	0	0	1	1	1	1	0	1	0	1
677	1	1	0	1	1	0	1	1	0	1	1	1	1	0	0
678	1	0	0	0	1	0	1	1	0	1	1	0	1	1	0
679	0	1	1	1	1	0	0	1	1	1	1	1	0	0	1
680	1	1	1	0	1	1	1	0	0	1	0	1	1	0	0
681	0	0	0	0	1	1	0	0	1	1	1	1	1	1	0
682	1	1	1	1	0	1	1	1	0	1	1	1	1	0	0
683	1	1	0	0	1	0	1	1	0	1	1	1	1	0	1
684	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1
685	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
686	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
687	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1
688	1	0	1	1	1	1	0	1	1	1	1	1	0	1	0

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
689	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
690	1	0	0	1	1	0	1	1	0	1	1	1	1	0	0
691	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0
692	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0
693	1	0	0	1	1	1	1	0	0	1	1	0	0	1	1
694	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1
695	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0
696	1	0	0	1	0	0	0	1	1	1	1	1	0	0	0
697	0	1	0	1	1	1	0	1	1	1	1	0	1	0	1
698	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1
699	1	1	1	0	1	1	1	1	0	1	1	1	1	1	0
700	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
701	0	0	1	1	1	0	1	1	1	0	1	0	1	1	0
702	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
703	1	1	1	0	1	0	1	1	0	1	0	0	1	0	0
704	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1
705	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1
706	1	0	0	0	0	0	1	1	0	1	0	1	0	0	0
707	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0
708	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
709	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1
710	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0
711	0	0	0	0	0	0	1	1	0	1	1	0	0	0	1
712	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0
713	0	0	1	0	1	0	1	1	0	0	0	1	1	1	0
714	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0
715	1	0	0	0	1	0	1	1	1	1	1	1	1	1	0
716	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
717	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0

**Lampiran 5. Waktu Respon Peserta Tes (detik) 1-15**

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
1	100	4	5	27	574	2	2	1	2	143	2	3	203	22	59
2	70	81	10	63	25	36	47	32	26	41	129	41	33	19	13
3	80	31	30	8	9	7	37	51	3	26	163	3	89	780	38
4	46	14	12	349	26	23	26	50	27	193	3	3	5	3	53
5	98	43	36	62	70	30	39	35	38	50	56	69	58	94	75
6	298	41	39	22	62	13	3	2	4	65	2	25	2	14	34
7	3	2	37	4	39	56	44	43	54	96	31	98	42	17	23
8	18	143	8	4	13	2	2	7	12	14	10	14	3	22	1243
9	85	13	12	1	9	4	3	1	1	1	3	19	27	21	78
10	221	211	69	121	30	26	14	36	45	15	11	16	23	29	34
11	133	23	22	20	2	3	28	12	5	2	21	24	1058	43	32
12	155	14	36	14	11	12	13	2	709	27	47	148	41	21	63
13	178	7	16	38	562	24	35	26	33	36	54	57	25	44	21
14	13	141	191	95	5	53	69	4	10	4	403	54	5	3	130
15	1494	42	3	33	70	4	5	7	32	23	26	8	15	53	8
16	74	44	129	44	57	36	35	42	190	71	7	202	59	64	50
17	309	121	53	64	296	21	2	31	32	90	61	2	32	51	33
18	67	24	14	34	21	18	42	20	23	36	59	55	55	43	35
19	66	3	5	30	39	8	15	13	13	16	24	30	16	27	3
20	46	31	14	40	21	90	38	50	19	28	51	24	3	781	1
21	57	4	16	41	5	14	5	505	42	53	2	36	41	27	33
22	421	5	282	72	106	60	18	1	69	42	30	51	24	46	8
23	57	55	15	3	18	12	74	665	32	36	55	86	20	29	36
24	55	86	3	123	15	6	14	19	2	21	20	17	398	149	41
25	59	37	23	26	18	21	23	20	28	25	13	13	11	13	5
26	74	3	8	2	23	1	11	25	27	20	35	9	3	2	2
27	37	12	26	30	33	220	75	11	4	4	10	22	22	3	3
28	101	30	79	46	42	35	129	45	52	3	142	44	2	183	255
29	8	185	32	42	3	36	18	23	2	2	75	8	3	1	24
30	112	5	55	309	19	24	24	31	32	25	45	55	45	61	39
31	140	8	2	22	155	19	17	26	32	23	70	31	35	37	33
32	567	157	9	37	34	3	176	4	5	134	42	8	7	67	14
33	62	59	44	30	53	22	23	23	28	40	45	94	25	52	39
34	1490	36	3	53	23	8	17	24	14	24	31	16	4	12	31

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
35	3	30	3	144	5	136	4	60	57	59	7	266	4	89	33
36	2	2	136	418	16	15	19	17	25	16	32	48	26	38	52
37	7	70	11	26	42	37	24	44	71	47	43	41	51	74	107
38	251	53	51	28	22	34	30	62	42	65	44	88	63	83	28
39	82	24	40	32	121	8	11	11	23	15	26	63	59	5	14
40	1354	26	12	2	2	17	10	3	4	2	2	2	4	3	2
41	144	255	55	24	21	27	25	27	35	30	42	97	52	103	39
42	15	33	82	68	25	27	20	25	27	3	30	128	37	44	71
43	118	3	32	33	18	39	23	29	44	54	52	199	66	31	20
44	77	71	15	20	23	3	47	24	22	40	66	43	236	90	23
45	48	304	133	35	2	3	2	5	7	691	26	147	23	45	54
46	967	4	20	16	7	3	12	15	4	3	5	216	39	12	7
47	30	27	15	59	13	33	22	33	22	44	43	145	79	42	27
48	236	52	141	51	68	21	41	27	23	43	74	37	40	45	19
49	666	11	65	13	4	2	10	5	8	9	10	12	83	5	9
50	168	4	378	40	24	2	48	25	3	96	51	71	52	35	2
51	6	3	1	1	9	22	33	20	196	3	48	2	2	8	327
52	112	69	3	138	10	8	16	17	13	19	14	21	28	4	8
53	56	22	58	35	163	25	31	22	51	15	35	31	17	43	63
54	123	47	27	15	154	3	4	7	1	2	4	882	56	78	40
55	83	4	35	17	28	23	33	55	36	33	73	135	35	12	38
56	348	3	23	57	8	7	39	3	21	11	18	44	1034	49	30
57	3	2	2	56	3	17	23	18	5	3	2	2	2	2	3
58	437	2	2	6	8	2	2	28	15	25	5	75	4	3	15
59	428	63	16	101	3	16	5	3	3	23	25	66	334	110	172
60	97	81	39	46	98	26	53	37	66	47	87	101	64	27	22
61	9	153	30	67	210	23	24	21	33	38	48	82	43	59	43
62	198	35	3	6	5	5	9	4	23	4	7	14	3	3	13
63	66	41	121	50	24	33	36	25	27	36	57	143	33	146	118
64	66	12	9	74	10	15	54	12	31	36	30	46	42	26	15
65	192	29	41	19	13	14	9	12	17	15	24	20	17	68	31
66	39	72	12	34	41	41	25	64	62	106	57	129	131	18	28
67	90	126	118	26	19	12	15	33	5	363	44	4	21	2	2
68	454	4	1	7	24	47	17	15	34	27	45	35	4	3	2
69	51	83	180	46	8	2	6	24	2	220	4	141	32	29	52
70	44	44	269	20	12	18	11	12	14	14	33	29	50	32	73

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
71	209	72	6	2	8	9	6	8	15	12	23	9	10	21	28
72	341	15	6	73	18	27	22	26	50	36	54	62	57	48	30
73	24	170	44	55	27	3	27	3	13	12	13	29	32	24	32
74	9	20	15	4	4	3	14	398	36	6	149	66	34	45	39
75	2	24	342	43	17	3	10	2	3	4	363	67	88	14	2
76	28	37	22	28	36	44	37	35	42	47	105	46	44	87	63
77	59	11	28	63	79	5	12	6	24	6	844	214	205	56	37
78	58	8	306	341	3	8	12	4	11	16	7	35	36	69	50
79	12	68	14	12	5	4	2	5	5	3	3	1303	50	60	29
80	160	41	98	44	36	29	128	61	68	71	48	129	86	59	60
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
319	160	41	98	44	36	29	128	61	68	71	48	129	86	59	60
320	87	31	43	35	30	20	23	31	18	59	57	63	28	23	20
321	47	18	11	31	156	29	32	26	28	44	40	59	64	135	25
322	73	48	65	49	48	27	37	35	74	59	59	167	68	95	36
323	155	13	22	37	27	28	41	22	23	16	38	57	40	39	52
324	158	208	120	79	40	24	22	17	43	42	77	108	33	81	27
325	77	52	30	35	20	18	41	29	39	55	23	84	27	39	27
326	1374	20	42	3	3	3	4	6	16	47	24	2	48	22	17
327	68	52	5	34	118	817	17	23	23	30	31	54	21	57	31
328	45	2	10	20	6	5	12	5	18	9	9	14	152	13	11
329	4	7	8	14	75	28	4	21	22	4	4	192	214	92	231
330	114	66	81	36	23	44	41	45	30	44	37	55	30	47	68
331	78	194	123	127	71	23	56	21	2	23	143	110	25	59	14
332	367	73	56	44	16	24	23	35	29	48	45	130	63	40	46
333	258	218	32	34	47	45	24	56	46	64	82	85	59	23	21
334	122	47	73	38	15	22	7	17	2	636	43	81	57	107	90
335	106	3	3	3	59	41	4	21	9	31	786	98	56	30	20
336	82	235	1	72	4	3	3	2	2	786	50	97	157	73	17
337	61	12	7	78	23	27	38	46	51	38	35	91	141	126	32
338	15	197	5	4	13	28	21	23	29	29	28	84	29	57	21
339	44	45	47	62	26	51	78	34	27	84	69	84	66	20	13
340	299	9	6	53	18	29	56	49	45	44	72	66	35	42	35
341	138	22	31	44	11	19	31	15	34	28	27	33	19	52	23
342	221	200	14	89	4	8	12	14	11	15	50	46	57	18	43
343	59	13	16	48	24	24	30	21	34	31	42	76	40	67	56

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
344	46	508	22	21	38	70	16	665	6	43	33	45	8	4	12
345	5	240	46	31	47	18	14	27	17	30	30	91	26	758	14
346	185	14	19	45	10	19	28	5	3	3	9	11	95	71	75
347	194	64	3	107	4	15	13	38	659	35	38	56	51	43	52
348	1750	8	11	5	3	3	2	2	3	2	2	2	3	3	2
349	68	64	179	29	22	17	21	24	34	26	30	60	32	57	37
350	81	30	32	4	4	7	2	2	3	716	40	86	29	84	59
351	64	56	80	29	23	36	264	81	64	56	62	48	45	28	22
352	172	2	1	3	3	32	102	110	55	24	27	33	131	64	30
353	192	81	9	41	19	18	30	41	27	32	23	22	59	123	69
354	17	132	5	210	32	27	23	30	26	35	55	62	37	33	15
355	107	173	31	229	32	54	13	13	17	9	27	81	61	20	17
356	209	665	24	31	16	9	15	24	35	12	41	26	3	65	31
357	77	22	176	15	26	35	35	50	38	62	58	101	28	29	36
358	199	184	17	77	3	1	381	42	214	66	81	120	60	61	32
359	233	42	22	3	39	4	17	11	12	282	772	69	21	44	26
360	3	278	39	20	105	8	13	10	10	12	161	7	3	3	3
361	94	16	19	61	42	29	24	31	38	57	38	69	4	59	56
362	117	42	12	41	87	3	24	8	155	24	119	126	96	76	28
363	573	3	3	3	10	19	12	22	23	14	79	841	28	30	19
364	89	5	6	17	29	45	10	29	13	60	66	308	134	35	23
365	64	33	68	34	37	97	109	6	52	57	82	69	201	97	61
366	91	49	6	23	15	30	23	20	42	59	39	166	20	37	41
367	1360	11	9	16	5	9	14	28	21	19	53	109	111	4	14
368	130	196	1	4	3	954	20	20	18	20	3	74	45	23	2
369	101	90	411	44	86	12	22	14	26	39	20	31	2	1	2
370	18	215	52	39	13	28	30	29	44	31	45	65	93	56	57
371	63	106	52	62	53	41	21	25	28	42	31	52	3	166	4
372	1132	5	2	5	8	6	9	11	461	40	10	135	17	9	5
373	235	13	16	42	36	17	23	19	41	2	2	5	2	3	38
374	1361	21	21	10	18	3	83	33	4	28	14	5	140	3	3
375	57	407	5	496	16	2	82	33	45	37	50	55	40	59	16
376	173	128	3	43	95	65	21	51	80	18	168	118	79	16	12
377	4	6	6	26	85	20	32	3	97	67	46	238	28	129	58
378	11	3	3	4	2	2	3	49	15	2	908	66	10	1	217
379	177	10	3	72	23	33	27	63	81	65	54	136	80	120	37

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
380	15	126	355	18	5	8	5	4	8	15	7	14	5	8	8
381	7	26	16	7	21	12	29	24	26	47	27	49	20	19	17
382	51	4	68	24	17	13	15	23	20	20	22	22	520	38	27
383	67	1	3	3	20	2	5	8	39	115	12	9	1187	49	3
384	30	286	3	5	201	598	25	24	40	28	37	58	53	44	46
385	88	39	102	52	56	19	23	43	47	18	27	69	64	94	51
386	41	23	12	13	29	3	6	3	42	12	2	74	2	73	37
387	448	194	61	18	24	20	10	65	26	23	28	42	81	122	73
388	60	16	9	42	30	23	28	31	52	24	61	103	1	3	3
389	97	174	269	124	23	21	18	17	29	28	45	93	40	50	48
390	558	240	49	54	23	27	30	22	22	26	41	36	74	3	125
391	8	3	176	45	15	13	17	17	21	14	26	27	41	91	33
392	38	190	60	32	39	31	76	77	109	74	86	127	60	37	12
393	57	7	10	37	266	31	24	13	37	30	32	100	78	34	23
394	153	16	153	48	14	30	26	16	22	51	69	101	115	77	65
395	3	5	3	323	14	12	28	18	15	30	27	2	45	45	10
396	112	6	3	15	18	5	3	3	4	3	2	9	113	63	27
397	4	92	47	77	35	14	3	40	156	47	49	52	40	7	7
398	63	17	22	62	34	32	121	3	168	30	92	3	6	38	394
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
637	63	17	22	62	34	32	121	3	168	30	92	3	6	38	394
638	102	8	15	34	18	23	28	23	23	43	63	109	23	44	112
639	1415	2	21	17	7	8	13	7	17	14	20	28	43	12	87
640	93	57	36	63	34	28	47	64	37	26	58	1	190	24	31
641	107	22	17	5	38	5	2	2	3	2	2	1368	15	3	69
642	4	69	64	84	19	18	9	36	24	4	79	30	29	2	2
643	99	214	13	12	16	21	12	58	19	47	34	6	2	3	3
644	109	4	2	2	2	2	2	4	15	2	2	3	1019	2	1
645	63	33	23	28	17	25	10	31	22	43	23	47	45	44	24
646	158	3	4	39	26	36	56	51	58	37	38	107	37	23	16
647	89	44	101	49	24	39	24	26	55	55	83	104	97	34	36
648	101	74	44	40	101	55	127	86	86	65	66	59	76	68	57
649	2	22	54	4	150	142	52	119	106	4	30	97	118	60	191
650	3	2	122	315	24	32	62	54	29	23	39	111	129	49	98
651	2	3	3	40	25	30	89	29	41	39	74	118	70	51	89
652	66	161	78	48	41	35	63	25	50	35	66	67	34	49	88

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
653	15	187	5	12	12	6	3	5	11	3	10	5	1012	39	51
654	140	61	334	50	28	25	29	45	26	59	81	27	59	64	27
655	165	1592	2	22	2	2	2	2	2	3	3	3	29	8	3
656	8	460	13	33	299	14	14	9	15	12	26	67	19	84	81
657	138	95	149	45	74	35	42	76	50	61	46	40	60	35	56
658	3	22	31	16	83	14	26	14	16	23	2	90	4	8	5
659	88	15	11	20	20	39	38	21	29	40	42	41	33	33	33
660	71	32	2	24	3	5	671	80	129	57	2	129	3	83	4
661	1858	2	2	1	2	2	2	5	2	4	1	1	1	2	1
662	3	23	26	15	2	30	2	2	3	1	530	2	54	147	70
663	2	355	20	290	67	10	160	2	388	2	69	2	18	15	24
664	49	389	10	39	17	16	17	17	17	49	41	65	57	53	202
665	3	3	2	3	15	17	13	16	8	68	37	91	31	42	5
666	92	13	38	38	17	24	4	92	44	22	34	142	129	48	375
667	12	87	80	64	22	52	29	27	23	56	77	137	34	100	31
668	51	123	16	27	14	21	13	27	24	19	91	84	28	18	188
669	56	3	2	5	18	18	33	26	25	30	89	4	31	473	2
670	262	21	12	26	26	33	18	20	32	50	29	48	39	37	40
671	71	7	74	6	24	17	52	16	18	15	49	25	56	87	40
672	52	33	8	28	18	14	21	30	27	13	24	62	33	41	78
673	389	4	6	4	25	15	16	13	32	35	3	22	3	812	34
674	100	15	131	7	25	15	9	5	38	11	10	39	61	22	101
675	2	3	30	40	706	36	52	25	32	2	118	45	5	94	61
676	69	56	33	42	22	24	37	32	31	34	34	66	66	20	79
677	98	45	11	24	15	27	24	21	43	59	37	169	20	31	42
678	71	2	54	5	16	18	15	24	28	25	55	81	35	37	36
679	75	194	32	43	21	29	20	46	28	54	56	61	30	98	34
680	14	3	3	28	50	532	27	19	9	21	35	76	15	38	47
681	5	10	24	2	2	7	216	2	2	2	3	2	1	49	2
682	124	213	4	21	11	17	31	24	21	36	37	115	31	20	14
683	137	245	22	24	13	20	30	13	19	24	19	30	23	3	150
684	98	53	47	95	222	11	3	28	2	41	38	37	29	31	21
685	93	17	6	60	48	47	19	18	38	30	19	59	49	113	31
686	15	10	37	9	3	7	9	15	38	16	11	15	987	62	24
687	89	20	23	46	3	4	15	18	791	50	40	84	31	42	32
688	105	3	14	431	19	16	24	21	29	16	40	46	47	76	25

Peserta	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11	Item 12	Item 13	Item 14	Item 15
689	1317	16	33	32	9	7	8	35	16	15	26	37	3	2	2
690	83	27	26	4	49	33	82	6	3	116	52	74	54	13	106
691	326	2	19	307	2	153	21	38	23	17	2	135	34	46	101
692	1352	51	10	3	17	5	12	17	15	11	8	16	38	12	57
693	46	3	22	9	590	19	116	6	14	26	98	4	25	65	27
694	110	1	78	99	3	37	6	136	29	45	50	42	49	52	61
695	4	61	17	20	3	10	11	13	27	19	11	37	1076	36	12
696	125	16	70	35	25	39	45	52	58	51	55	73	52	55	29
697	182	318	25	36	125	3	3	2	2	3	2	2	45	25	32
698	77	9	55	24	13	18	15	21	28	30	30	53	45	35	33
699	43	562	36	3	2	3	3	544	38	46	32	100	35	24	34
700	11	61	21	9	4	45	9	6	14	846	50	88	151	64	53
701	57	264	4	321	78	11	11	24	2	14	8	34	46	5	246
702	358	25	2	45	32	10	5	23	22	15	20	797	21	10	10
703	73	175	65	89	29	32	47	32	119	54	5	3	313	42	29
704	40	21	148	164	180	22	42	14	14	29	37	80	30	21	19
705	5	17	2	3	5	3	12	6	14	21	29	30	17	2	2
706	661	45	21	33	36	21	62	44	97	67	25	36	62	32	51
707	162	1	4	1292	33	7	1	2	6	3	2	20	39	3	11
708	123	3	11	15	22	16	12	10	26	12	24	75	62	967	56
709	83	15	3	24	11	17	22	17	18	22	52	36	34	44	29
710	1409	5	3	6	2	2	2	9	2	6	2	3	2	2	3
711	106	65	209	173	26	39	29	30	27	23	45	44	34	23	26
712	2	40	38	4	36	7	6	3	2	3	3	3	1070	27	3
713	2	15	6	76	2	1	1	229	41	3	18	3	2	26	10
714	182	234	4	625	14	12	9	12	14	21	29	69	23	46	15
715	12	5	3	6	25	23	29	77	71	42	39	78	247	48	58
716	45	54	2	30	3	150	116	48	3	64	25	35	2	18	4
717	94	240	64	78	106	2	2	413	56	98	69	83	84	95	3

**Lampiran 6. Waktu Respon Peserta Tes (detik) 16-30**

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
1	3	51	27	80	44	170	4	7	2	2	2	269	3	177	110
2	45	39	105	74	200	183	106	87	69	64	143	151	73	92	3
3	42	39	45	30	140	32	159	36	3	12	10	27	3	114	53
4	357	17	14	4	154	241	21	5	50	44	185	101	4	52	18
5	61	88	164	41	53	22	73	64	85	96	192	90	107	45	66
6	17	47	16	37	10	125	24	4	30	37	13	108	55	916	35
7	55	16	186	64	26	82	106	61	493	99	68	87	70	52	46
8	81	18	19	39	29	29	3	4	58	24	162	5	8	32	74
9	2	3	12	11	6	11	1469	45	105	2	18	27	3	36	72
10	41	49	50	54	44	115	5	78	58	49	202	51	180	142	81
11	44	62	10	23	39	26	13	33	6	4	2	86	190	33	101
12	52	98	120	58	57	9	38	24	1	70	26	3	52	77	102
13	22	47	49	52	49	2	144	47	85	81	72	143	75	26	50
14	3	2	4	36	2	40	5	47	61	190	433	50	31	14	2
15	3	2	2	2	2	152	4	19	14	16	9	23	23	2	4
16	53	31	2	33	115	21	101	44	71	59	172	153	128	3	10
17	2	166	57	45	14	8	16	311	2	2	3	4	104	53	115
18	40	239	56	65	473	4	79	56	63	80	92	104	71	101	31
19	23	23	66	57	38	394	11	5	27	23	16	14	41	15	1039
20	2	102	17	33	10	55	130	27	36	51	100	46	40	212	2
21	4	19	29	204	31	608	25	18	4	33	25	17	111	88	3
22	18	77	10	61	140	201	3	75	38	45	14	158	7	7	11
23	2	13	3	3	210	147	120	13	11	21	30	39	189	2	104
24	28	53	39	107	32	44	320	2	49	35	87	39	10	87	199
25	6	5	5	4	4	1316	59	80	35	89	51	87	8	7	9
26	79	1136	83	30	45	46	21	56	27	41	17	72	5	12	185
27	8	20	46	21	833	53	157	55	58	54	224	25	5	16	13
28	75	38	47	28	38	82	67	33	133	148	57	70	2	63	31
29	123	2	21	29	878	70	20	124	65	59	101	28	40	77	1
30	37	20	57	39	22	625	7	4	31	36	121	43	79	55	43
31	366	106	36	37	20	4	370	124	35	34	131	59	30	75	23
32	3	199	10	69	30	98	2	54	2	65	82	87	72	13	50
33	51	61	100	37	40	297	115	48	63	51	247	98	106	66	81
34	10	3	24	15	6	8	9	14	62	55	5	47	32	18	6

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
35	7	29	94	119	49	49	215	85	128	65	141	9	94	2	114
36	33	53	29	35	57	47	27	402	42	45	88	26	18	187	149
37	34	34	54	73	47	322	3	34	37	43	6	579	58	51	30
38	39	80	65	18	96	130	128	52	33	73	95	110	40	169	28
39	83	28	31	18	608	26	202	66	204	81	127	4	9	4	75
40	3	2	3	2	2	614	5	3	2	2	3	3	6	2	3
41	44	69	3	7	47	47	29	103	31	357	8	204	82	59	34
42	5	101	102	156	37	38	140	14	2	159	21	377	53	72	188
43	25	80	45	63	31	589	170	64	35	45	77	41	23	43	8
44	36	70	22	64	89	367	21	48	4	8	3	257	261	28	22
45	31	25	18	25	28	53	36	23	30	18	2	70	95	69	52
46	12	3	71	32	13	10	41	49	297	27	133	43	8	5	26
47	28	91	45	73	40	97	180	257	79	78	158	49	196	38	57
48	19	29	19	16	21	16	3	391	62	46	173	254	86	33	14
49	10	950	35	39	25	15	11	2	15	22	9	8	19	8	20
50	42	68	1	2	134	3	494	47	34	1	111	49	75	2	38
51	24	65	75	64	26	34	6	499	2	72	310	81	3	56	102
52	146	23	40	30	28	11	5	41	23	23	23	47	63	983	134
53	54	128	49	20	14	721	47	58	26	34	118	9	60	25	70
54	33	77	62	48	30	66	3	102	30	8	27	3	87	36	45
55	28	42	100	52	26	88	70	36	13	23	78	726	78	57	43
56	25	2	43	31	10	73	5	55	3	3	15	4	29	47	60
57	3	6	11	3	21	19	10	13	199	1659	3	2	3	3	2
58	25	1110	118	36	47	22	4	3	17	5	3	10	7	23	41
59	4	6	32	14	141	7	4	43	58	53	28	239	46	40	17
60	21	22	67	178	27	34	177	50	61	58	162	107	87	110	48
61	39	88	69	50	31	21	112	3	571	62	4	4	67	40	56
62	5	1121	122	22	342	85	1	4	4	5	13	7	33	3	1
63	42	31	33	37	119	79	69	249	45	53	30	2	194	61	100
64	30	44	33	175	19	40	29	301	45	45	108	119	103	472	59
65	57	18	13	1209	122	8	31	22	24	4	30	22	12	4	3
66	44	64	99	20	21	21	57	172	132	83	212	53	199	23	41
67	5	1	2	669	28	78	259	135	1	7	23	4	1	3	4
68	6	4	61	10	127	452	5	2	42	357	136	58	102	3	16
69	43	95	43	41	113	28	219	57	18	140	88	140	40	26	129
70	59	308	127	170	25	16	29	21	25	22	56	407	33	46	81

Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
71	13	5	4	1420	11	13	6	2	3	140	23	3	7	5	7
72	45	49	35	42	42	313	3	67	61	113	160	47	185	50	23
73	77	67	126	69	89	51	6	38	22	46	3	49	810	89	50
74	33	99	110	34	4	18	158	369	74	5	112	44	120	39	39
75	68	106	4	28	126	71	74	281	2	150	47	40	37	64	18
76	20	76	170	42	38	131	302	37	37	45	98	74	118	88	123
77	18	17	37	15	12	2	50	30	60	2	98	5	2	66	37
78	39	37	29	28	61	77	8	26	3	170	3	23	559	37	36
79	31	38	9	5	214	32	4	38	22	5	3	16	8	52	48
80	66	30	51	25	97	61	118	63	46	98	141	26	51	62	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
319	66	30	51	25	97	61	118	63	46	98	141	26	51	62	47
320	28	142	215	42	246	8	92	47	65	43	141	63	73	241	86
321	33	63	64	70	33	1	62	220	73	351	23	12	288	40	22
322	43	39	19	66	17	348	90	54	63	63	90	79	136	46	7
323	27	21	50	31	45	24	80	41	96	29	170	659	91	73	53
324	30	38	18	24	36	108	155	41	31	61	141	80	175	38	45
325	14	467	70	2	1	313	116	84	64	91	128	43	105	4	2
326	19	24	46	37	13	179	4	10	9	17	58	24	2	12	15
327	49	16	7	29	227	30	3	23	16	114	64	5	54	25	57
328	1216	33	12	15	33	120	125	3	50	20	3	12	22	27	78
329	79	2	115	2	454	11	78	13	34	272	4	8	2	61	45
330	2	100	79	5	350	97	173	69	52	46	111	47	97	109	2
331	17	20	24	35	41	51	131	53	3	141	93	177	160	37	48
332	29	22	69	66	21	21	3	2	52	466	76	29	73	50	82
333	71	4	152	3	99	80	2	48	25	137	230	48	69	34	4
334	60	83	42	47	28	18	30	48	49	12	60	69	46	81	70
335	49	39	70	47	38	146	24	3	4	121	14	81	78	40	76
336	4	16	43	17	12	64	3	30	4	6	3	237	2	57	18
337	45	33	50	47	128	259	195	43	37	64	152	76	86	44	35
338	19	101	49	51	19	39	17	117	62	19	11	770	75	114	54
339	18	83	23	23	42	502	58	51	92	56	97	82	140	49	34
340	131	17	59	26	242	29	218	32	99	59	43	113	70	19	85
341	39	21	16	61	24	574	372	115	42	46	133	26	14	33	57
342	27	32	30	31	35	12	3	56	120	3	105	2	48	14	780
343	34	71	98	129	81	42	196	170	57	82	80	76	102	170	131

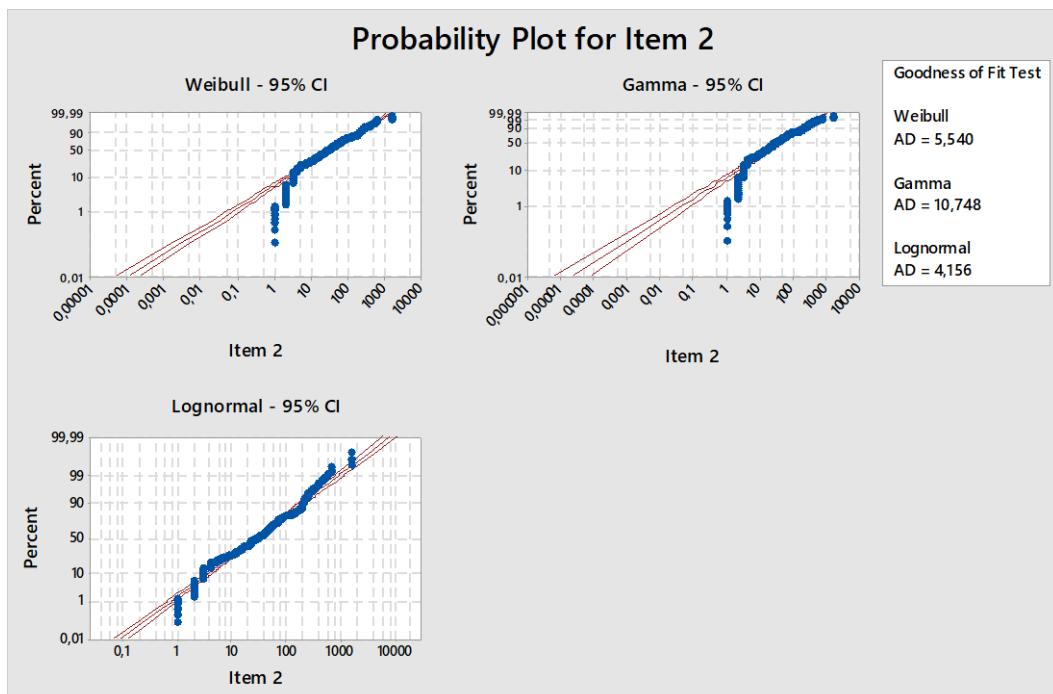
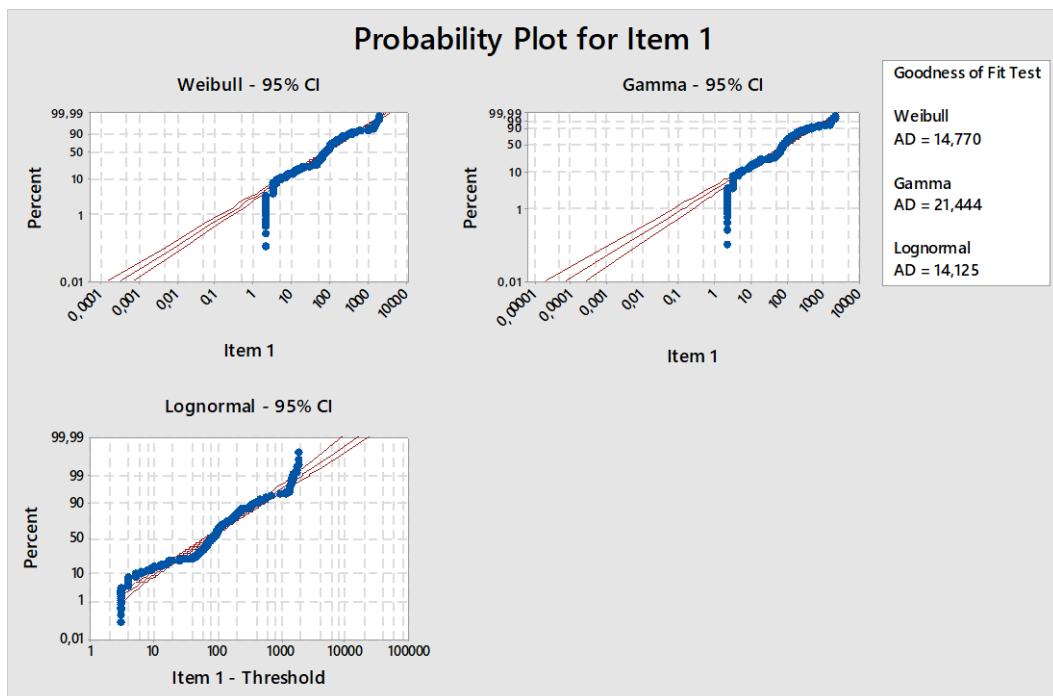
Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
344	9	22	86	43	13	27	60	2	7	103	3	61	93	18	16
345	36	156	105	47	52	50	15	6	19	41	13	28	51	31	56
346	35	97	2	17	127	76	4	50	81	9	289	70	339	146	166
347	26	32	62	33	37	24	19	27	3	91	148	44	91	29	62
348	8	3	2	2	71	74	68	6	40	8	5	4	2	3	3
349	49	59	14	34	56	164	282	237	46	89	95	87	71	63	54
350	45	69	32	34	40	154	4	109	5	109	63	116	82	30	29
351	31	21	14	39	21	444	64	25	183	80	51	36	50	16	67
352	23	117	191	18	23	272	2	1	1	6	2	513	92	48	2
353	9	28	45	34	28	280	6	55	4	399	109	62	61	4	190
354	50	50	32	24	20	106	30	4	104	531	147	28	169	22	44
355	2	13	20	46	34	544	10	77	133	51	137	3	58	40	48
356	262	4	6	17	167	65	26	39	2	4	12	12	35	175	68
357	25	59	20	93	13	556	92	58	35	47	120	42	91	39	22
358	32	49	78	24	40	12	3	64	9	4	3	4	149	62	29
359	23	53	38	11	32	36	5	12	45	53	10	37	109	37	2
360	4	54	49	29	20	420	10	41	36	27	87	141	3	3	501
361	4	31	13	27	26	68	242	75	91	63	291	84	194	235	19
362	23	42	49	50	24	29	75	93	100	117	123	4	190	160	63
363	17	25	2	10	74	71	3	2	3	6	3	49	50	53	53
364	39	34	56	34	32	20	44	5	198	479	156	65	8	26	35
365	27	75	32	98	135	63	109	77	72	15	35	121	91	56	27
366	82	36	69	24	70	548	98	38	59	39	85	52	87	79	73
367	20	4	3	2	80	1	12	6	42	63	3	58	6	10	7
368	2	143	39	18	19	56	2	39	106	107	1	3	48	1	3
369	2	349	44	3	83	52	61	107	302	54	89	3	46	2	2
370	64	77	48	70	27	237	3	36	61	52	151	28	125	180	126
371	82	48	14	44	28	250	87	60	43	55	106	40	184	34	276
372	2	3	62	2	10	13	4	3	8	2	38	13	44	36	5
373	2	375	23	49	24	23	6	93	3	626	105	45	182	5	45
374	2	2	2	1	1	214	5	47	8	9	4	39	15	2	2
375	25	32	42	49	30	70	3	3	65	9	166	34	102	57	13
376	46	69	65	25	33	220	7	79	73	49	126	119	57	36	26
377	32	4	3	2	30	35	3	395	53	76	114	48	348	61	51
378	19	2	86	19	20	332	63	3	52	5	3	3	5	130	62
379	53	60	45	126	46	1	3	211	66	48	197	9	117	66	71

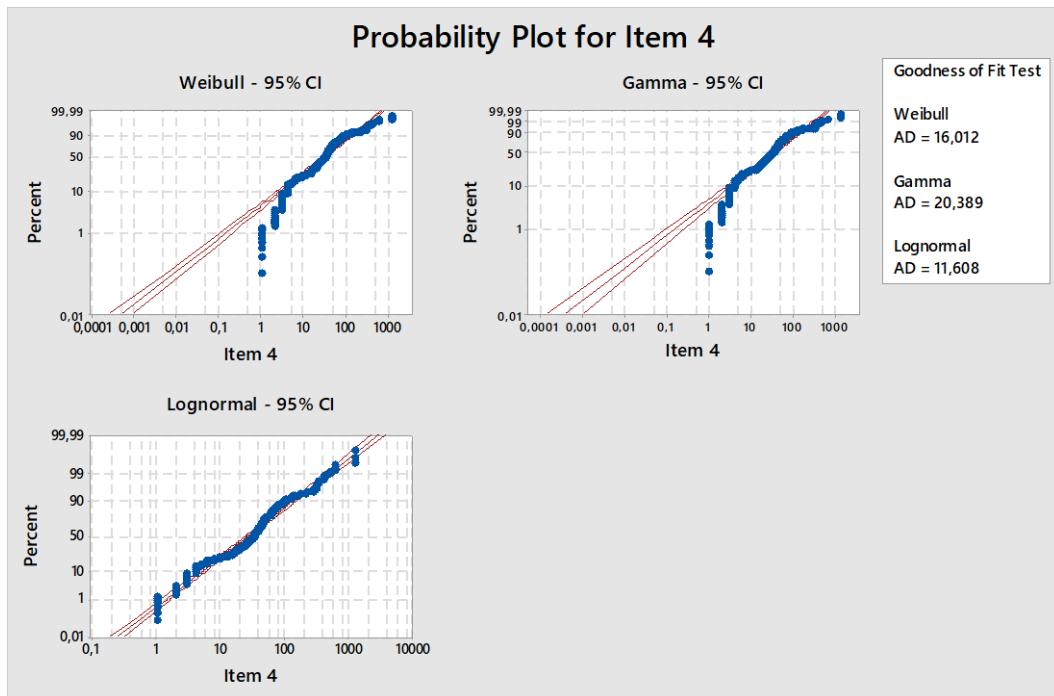
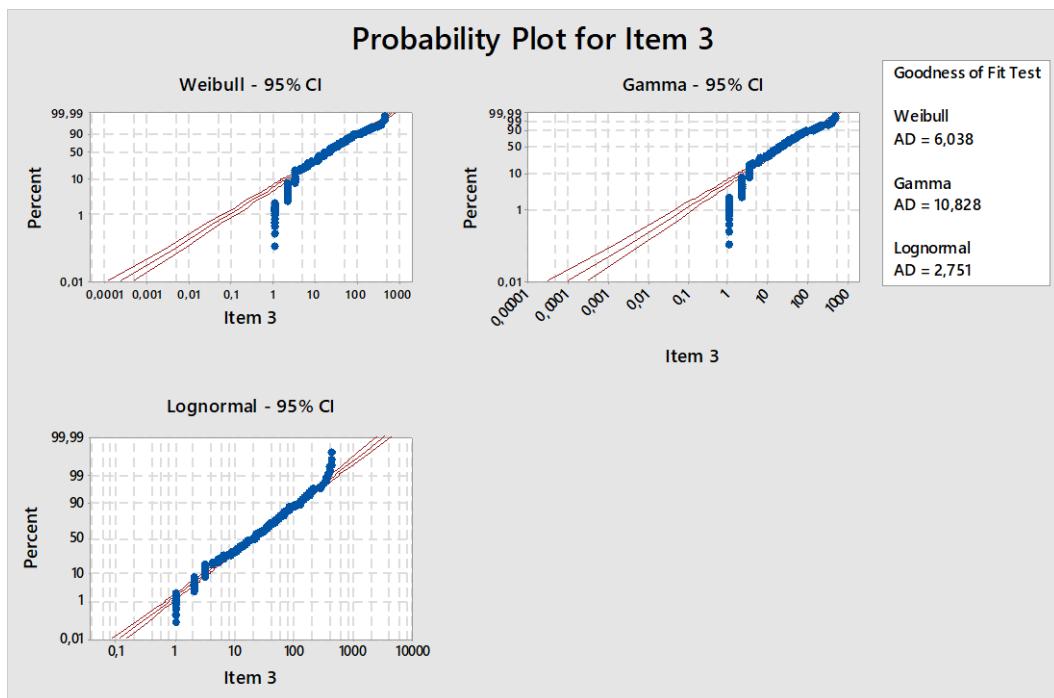
Peserta	Item 16	Item 17	Item 18	Item 19	Item 20	Item 21	Item 22	Item 23	Item 24	Item 25	Item 26	Item 27	Item 28	Item 29	Item 30
380	42	29	59	17	17	95	3	27	11	9	23	10	6	1034	117
381	38	51	29	54	44	35	514	2	57	2	4	718	119	56	30
382	37	30	4	261	23	18	52	27	81	531	3	9	44	58	38
383	104	18	3	72	4	32	3	3	2	2	2	4	188	4	136
384	2	4	337	36	107	21	10	3	4	3	11	3	77	2	2
385	34	40	133	158	25	307	68	69	46	42	145	78	53	69	41
386	2	36	1113	11	48	6	190	30	25	6	57	22	63	36	83
387	49	49	34	9	175	71	6	4	4	3	11	438	4	2	6
388	5	40	28	16	284	418	60	65	44	39	159	56	2	30	368
389	62	110	90	30	32	25	67	40	58	73	152	38	126	67	54
390	87	11	15	8	96	47	71	38	47	186	6	43	84	19	12
391	28	70	43	86	232	17	4	2	36	498	179	97	116	85	60
392	24	67	37	38	66	136	2	91	55	66	255	39	73	42	61
393	125	120	108	58	38	27	103	175	100	66	104	52	47	76	122
394	88	56	61	29	50	34	2	86	90	51	322	47	204	21	3
395	28	4	422	59	507	3	4	2	136	123	74	26	61	4	67
396	20	31	74	13	14	40	59	3	9	14	31	28	1261	50	67
397	133	36	53	40	46	31	216	92	85	91	244	43	75	194	51
398	40	59	70	31	68	8	93	85	43	99	136	28	115	96	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
637	40	59	70	31	68	8	93	85	43	99	136	28	115	96	44
638	34	46	30	19	34	16	55	513	79	69	228	111	44	14	140
639	2	2	6	6	17	56	36	62	67	27	25	7	40	33	3
640	1	42	53	28	15	76	190	128	56	82	130	102	4	317	87
641	1	13	3	3	2	105	4	29	24	41	5	116	3	3	88
642	3	46	98	25	450	73	59	2	2	60	31	701	71	4	2
643	547	43	84	31	38	140	6	46	28	194	83	51	42	68	140
644	2	26	2	2	212	27	291	10	3	4	2	72	34	6	236
645	33	31	33	35	43	957	69	45	36	40	94	53	64	71	18
646	25	41	65	28	32	37	307	355	56	46	132	153	59	33	42
647	81	57	28	60	75	137	62	77	63	100	98	112	217	29	44
648	29	49	24	46	65	170	38	61	78	46	88	161	49	54	37
649	136	35	4	130	277	8	22	56	11	72	21	4	4	80	89
650	37	80	22	28	30	10	337	2	40	36	86	42	147	79	32
651	32	47	109	53	183	19	4	69	41	61	47	187	150	71	324
652	30	88	71	65	88	232	3	93	42	34	114	152	43	79	60

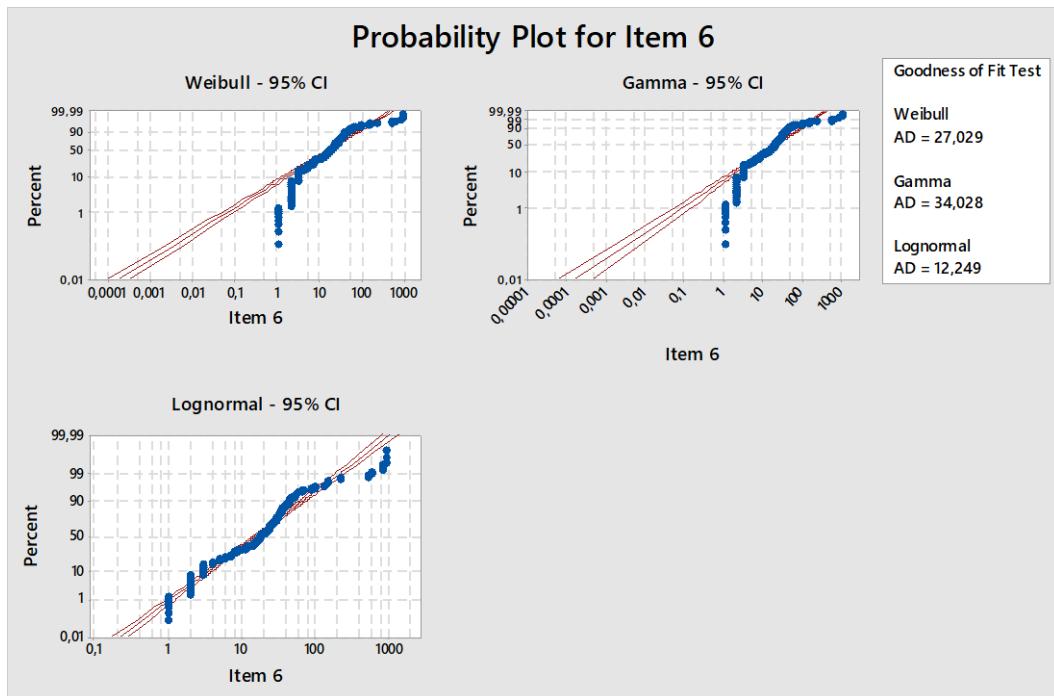
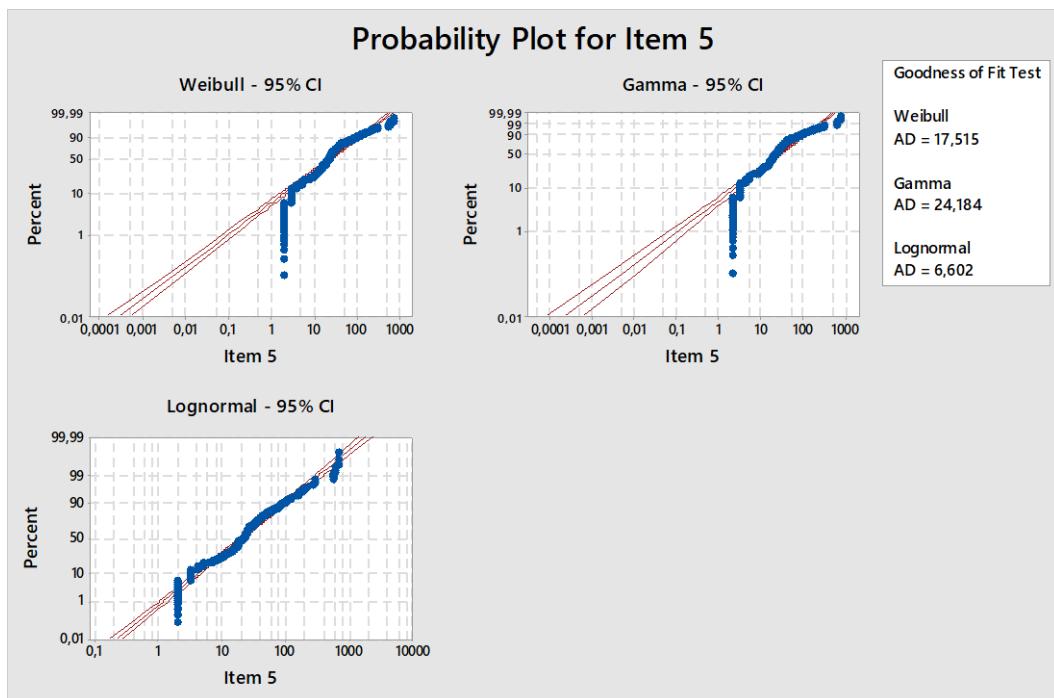
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653	30	51	77	42	139	80	40	64	11	34	5	11	4	63	73
654	61	50	53	56	36	35	3	67	96	95	208	100	48	75	62
655	2	2	2	2	3	128	3	97	3	5	3	2	3	2	3
656	21	66	38	61	24	53	44	87	68	125	19	87	52	103	98
657	27	47	45	56	48	45	97	72	78	74	221	68	87	72	61
658	43	48	1325	40	27	45	3	42	52	26	17	16	4	50	5
659	62	81	30	21	16	778	36	26	40	32	66	105	69	116	119
660	46	60	12	75	16	124	64	77	101	4	52	4	121	10	39
661	1	2	1	2	2	148	2	1	42	2	2	2	2	1	4
662	121	26	18	13	66	34	15	491	19	18	11	228	3	72	55
663	1	35	23	75	16	70	89	21	120	2	19	2	72	33	98
664	64	51	19	25	52	6	4	307	102	49	103	97	47	72	64
665	23	2	60	469	30	277	3	2	3	8	5	755	92	4	13
666	68	156	87	72	88	48	111	47	87	43	77	40	2	60	2
667	52	79	109	150	76	60	85	3	240	92	101	59	48	50	65
668	54	38	229	3	202	19	5	375	42	46	52	93	109	7	82
669	2	2	48	23	178	147	4	3	73	392	201	125	78	7	2
670	10	70	92	29	22	549	3	53	88	114	133	76	68	62	38
671	40	51	19	54	130	17	158	9	4	2	104	624	75	63	193
672	111	173	183	181	43	42	41	334	56	38	144	34	80	76	82
673	5	3	6	7	117	2	9	272	24	22	36	22	15	2	145
674	5	44	33	32	48	25	23	6	82	35	29	30	37	14	1068
675	140	142	101	82	37	5	5	2	36	2	10	33	80	63	111
676	43	46	107	28	76	113	251	225	50	47	101	78	170	3	117
677	24	39	71	4	68	548	192	38	58	40	82	54	84	60	72
678	67	2	55	36	75	21	601	6	368	49	111	47	53	63	44
679	33	141	60	30	41	17	116	62	70	119	140	49	68	106	227
680	3	12	7	11	90	7	3	3	3	34	822	7	27	92	62
681	1000	77	13	44	48	2	192	95	25	22	89	31	2	65	66
682	3	47	57	26	17	686	5	56	53	44	91	64	88	70	74
683	124	297	27	42	32	245	46	69	39	57	100	63	57	17	113
684	70	116	129	27	29	13	425	19	131	22	191	2	63	65	42
685	36	74	33	86	30	11	403	330	106	61	99	37	130	11	6
686	22	4	52	8	420	69	21	3	20	18	6	27	28	105	39
687	61	97	30	21	24	33	95	3	96	46	9	124	91	38	44
688	43	46	42	34	33	3	157	449	48	39	80	58	42	36	78

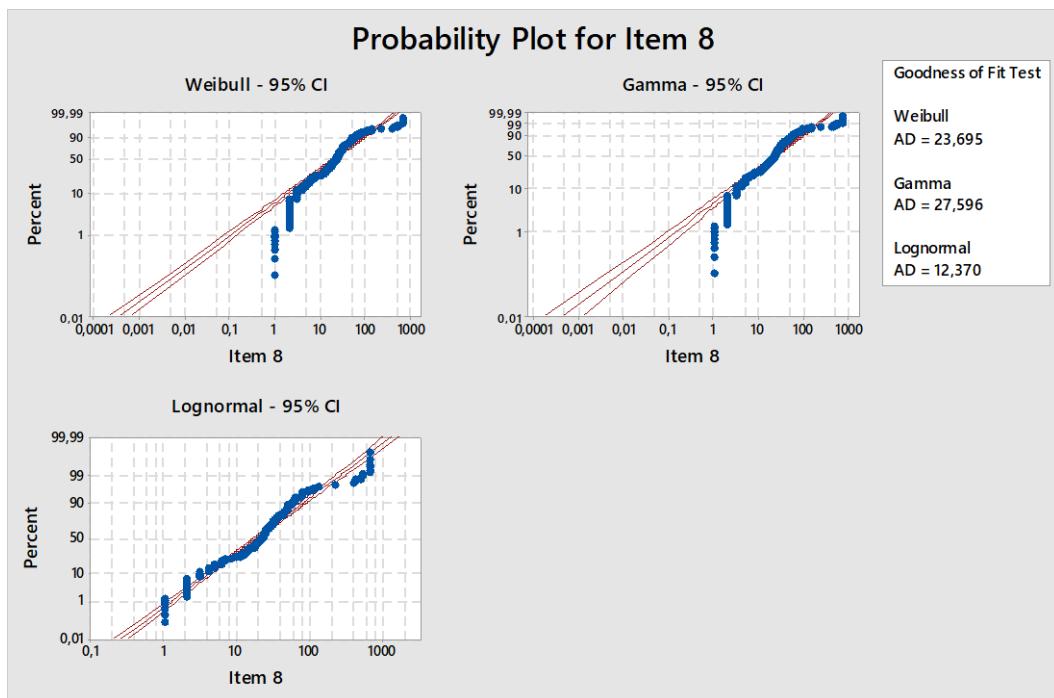
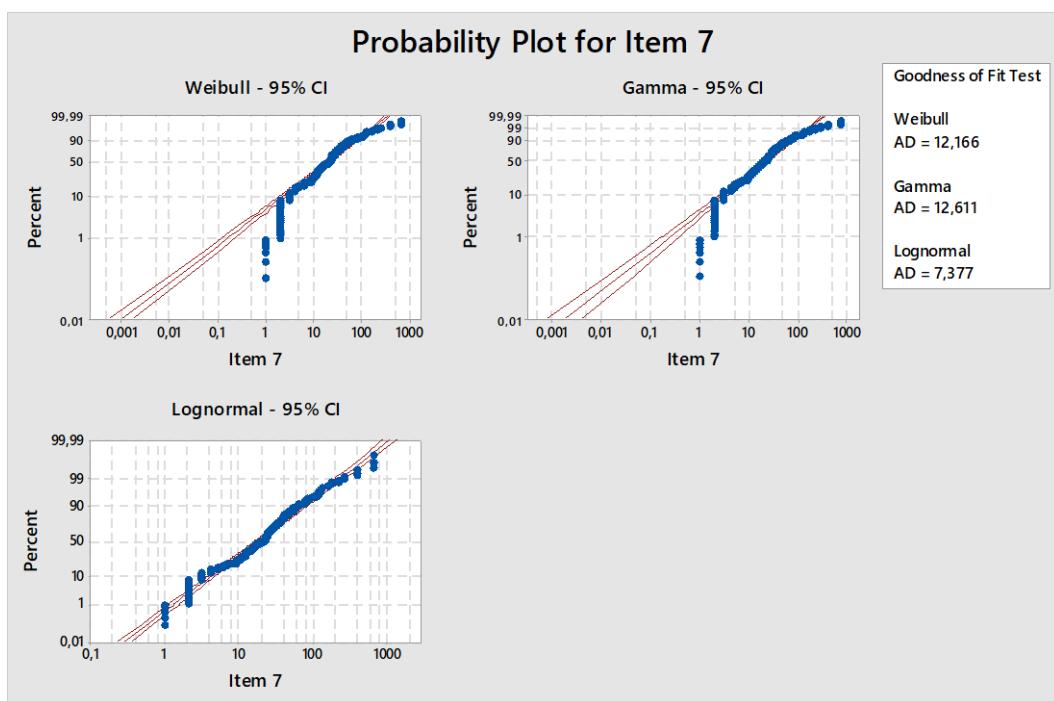
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689	2	2	2	2	2	357	110	4	12	14	9	9	14	2	1
690	40	98	60	75	35	124	197	71	86	5	23	336	116	73	33
691	57	97	24	75	92	182	30	18	32	42	7	3	94	60	61
692	37	27	20	42	5	59	10	50	44	26	28	47	25	23	33
693	30	10	160	167	41	77	14	69	19	40	4	164	189	43	3
694	44	91	65	54	34	34	160	100	88	160	3	266	37	79	87
695	18	61	22	52	34	28	6	37	18	29	26	5	35	33	339
696	42	60	18	56	125	378	97	33	60	87	106	44	106	4	104
697	30	28	48	24	32	86	6	42	77	70	59	4	498	162	129
698	22	33	30	23	51	29	467	560	28	64	27	134	46	45	55
699	39	147	38	56	31	6	2	3	3	4	3	4	35	127	97
700	26	25	28	17	124	12	3	31	103	89	5	4	107	49	45
701	17	32	46	27	23	476	75	13	2	95	106	1	8	18	36
702	25	20	15	4	90	56	226	34	9	8	88	2	69	3	56
703	41	87	141	109	39	57	27	60	57	135	77	122	3	11	27
704	24	78	68	18	74	16	72	337	36	36	191	152	36	39	62
705	976	145	98	33	32	12	48	32	4	16	3	12	28	345	148
706	50	34	66	25	24	51	170	47	78	48	83	63	23	30	15
707	3	13	3	3	2	153	3	3	3	4	2	3	120	192	7
708	45	67	68	48	33	14	36	16	24	19	28	56	22	75	115
709	56	73	59	16	25	3	265	309	114	59	142	34	62	6	450
710	6	237	13	30	6	13	3	7	5	7	6	290	2	10	7
711	35	11	88	16	11	170	177	26	204	137	237	18	20	11	40
712	78	24	28	163	26	131	249	5	4	3	4	65	24	22	27
713	2	2	1	12	1567	25	3	27	2	2	2	1	2	15	2
714	33	72	24	25	71	133	9	4	57	57	99	49	38	66	54
715	56	44	21	54	44	2	7	305	106	40	130	51	262	105	110
716	91	2	66	21	47	27	68	123	102	44	3	96	754	13	44
717	42	78	54	36	76	1	6	3	42	2	72	3	98	78	22

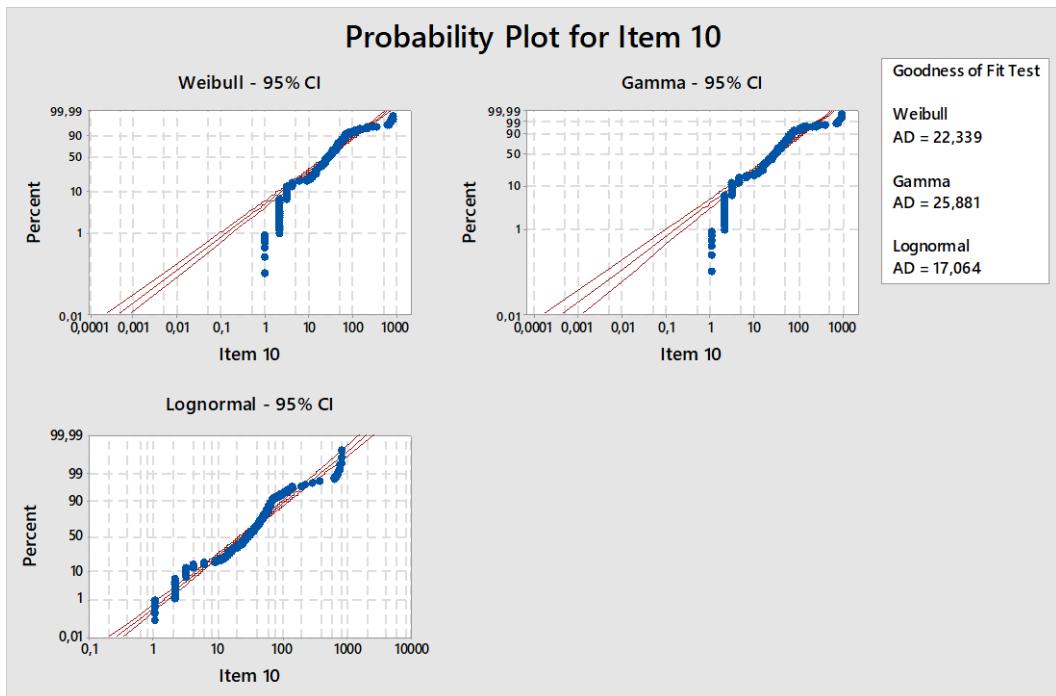
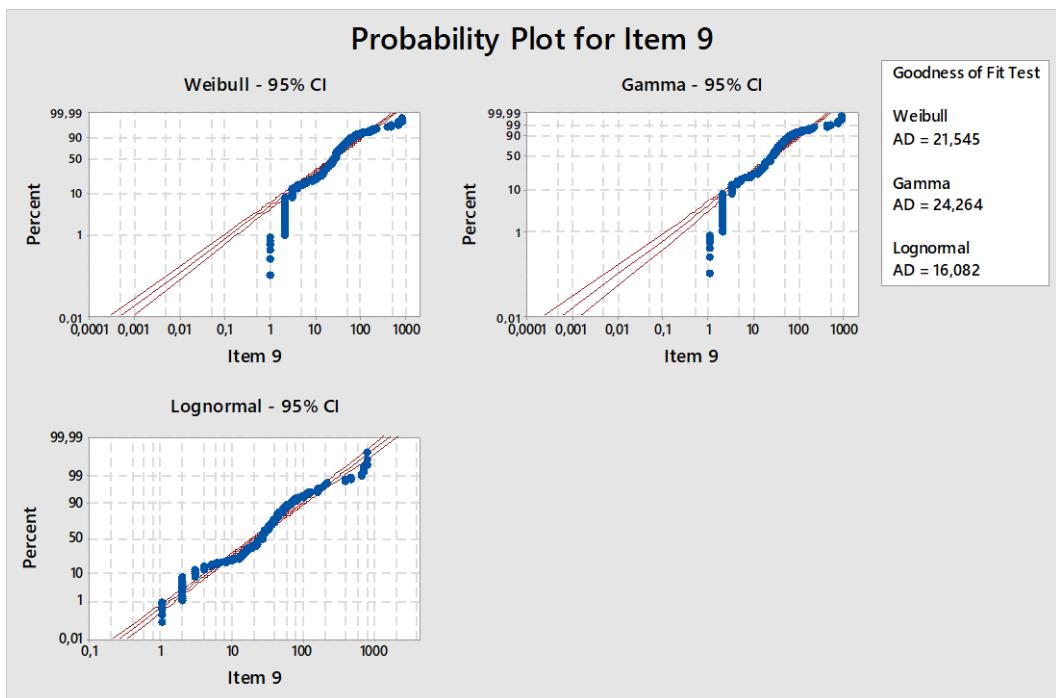
### Lampiran 7. Nilai Anderson Darling (AD)

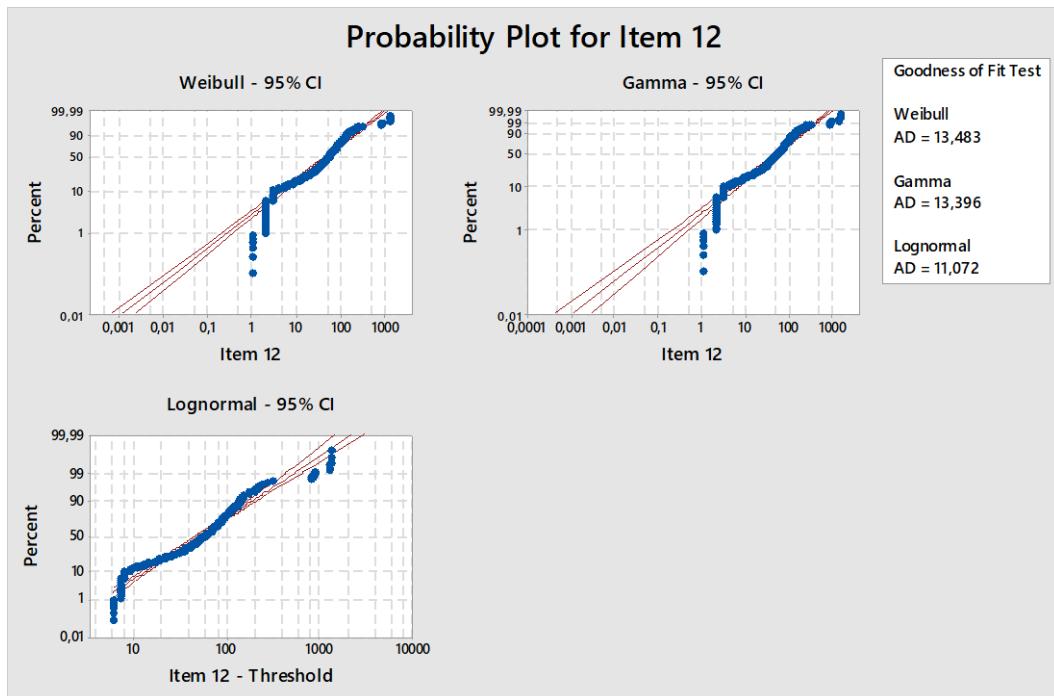
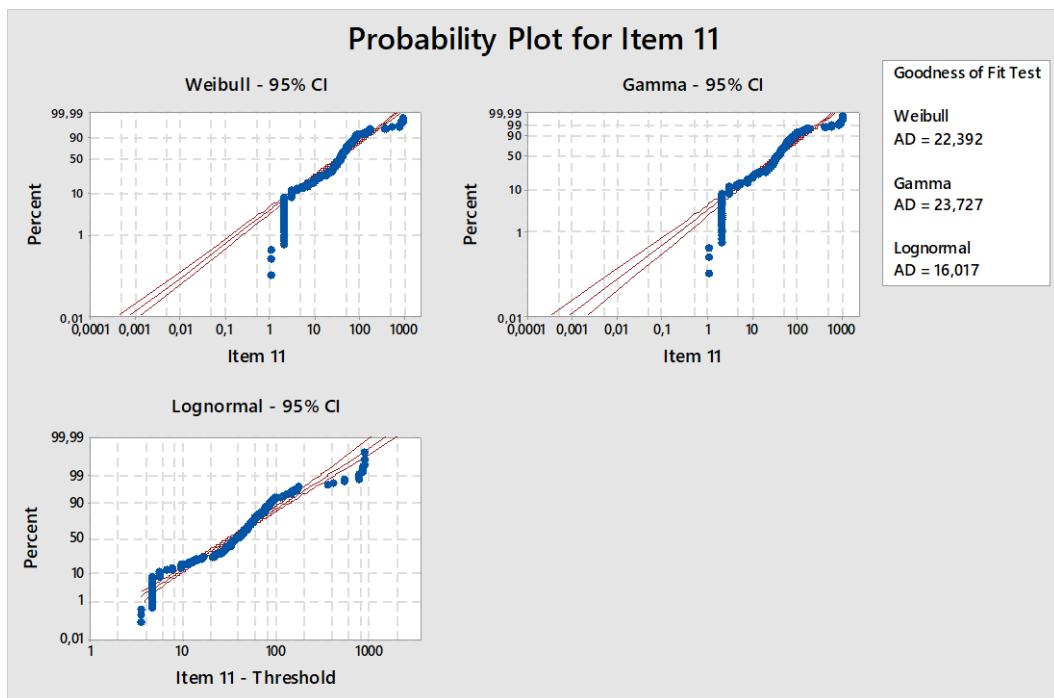


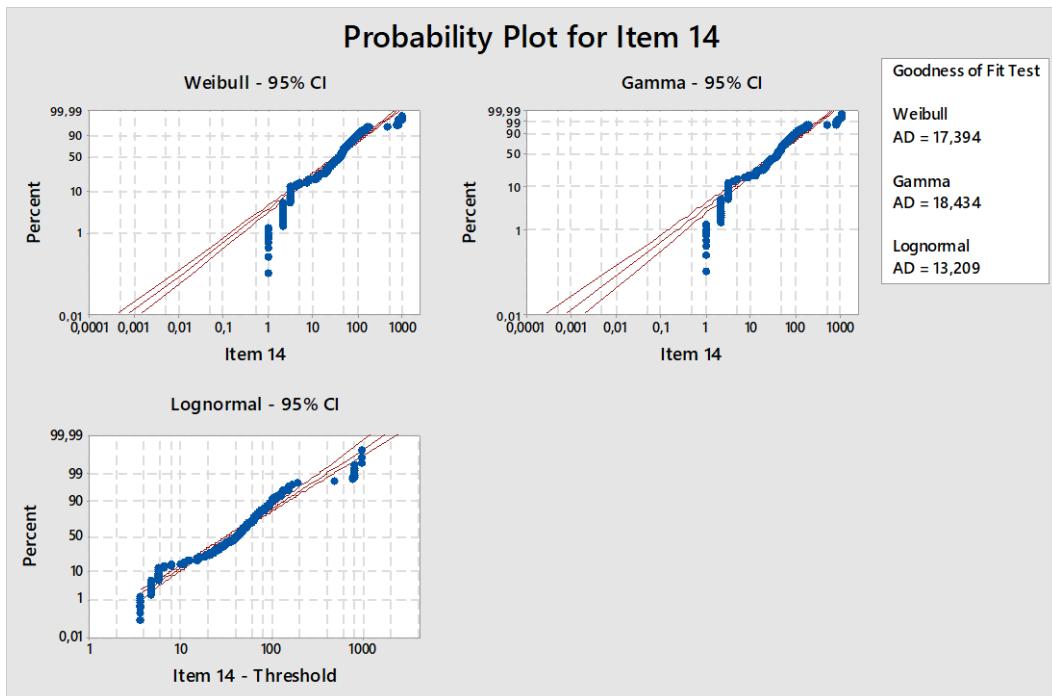
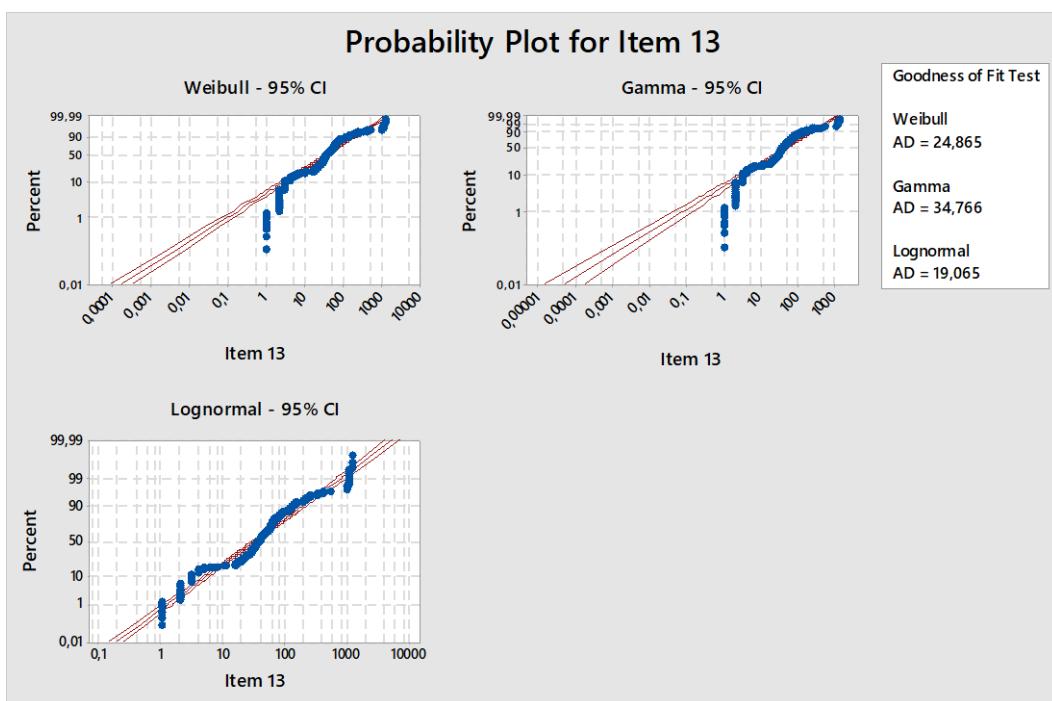


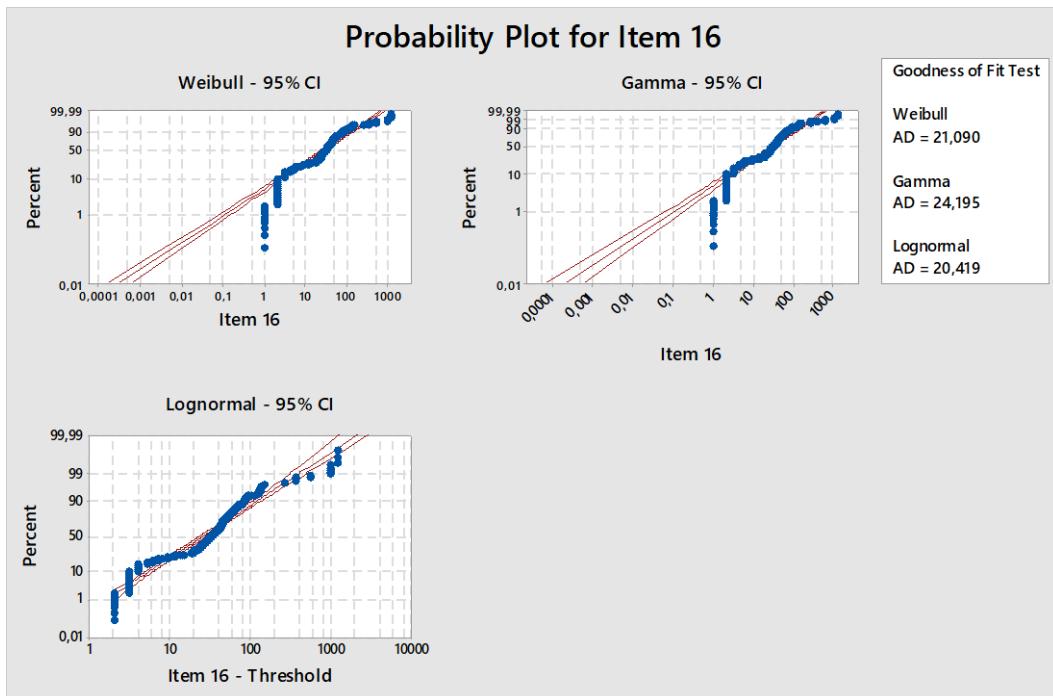
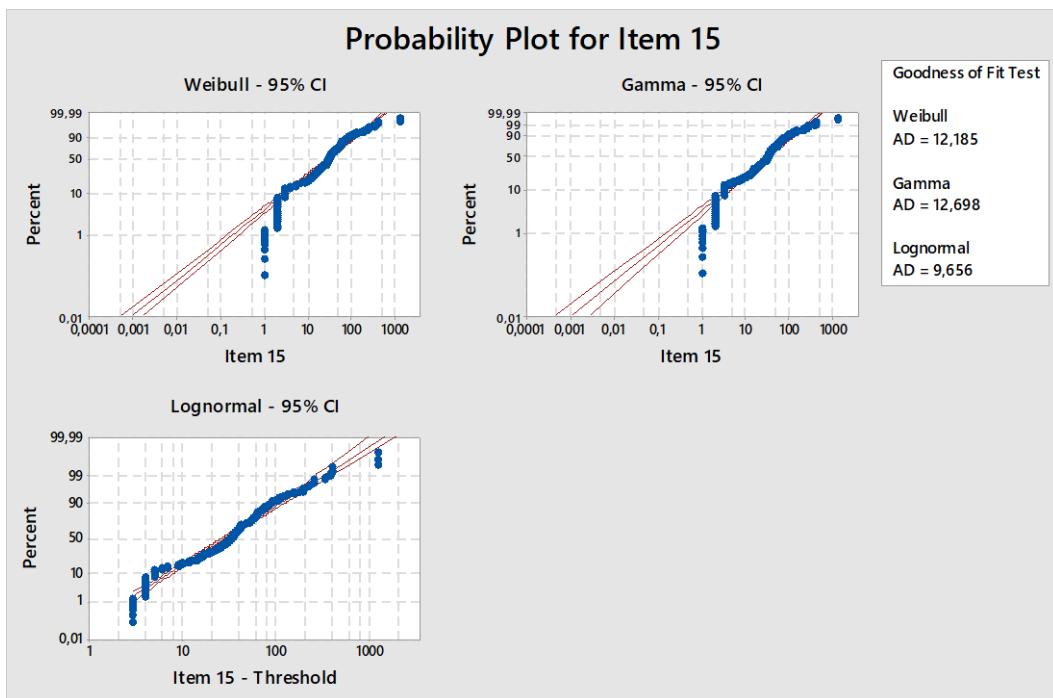


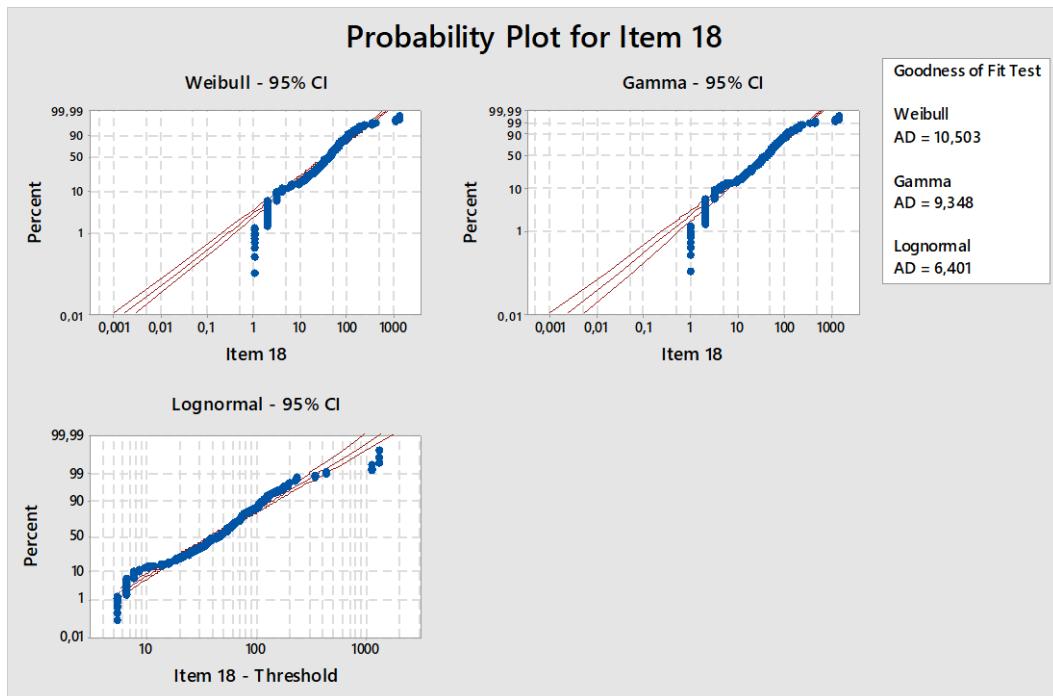
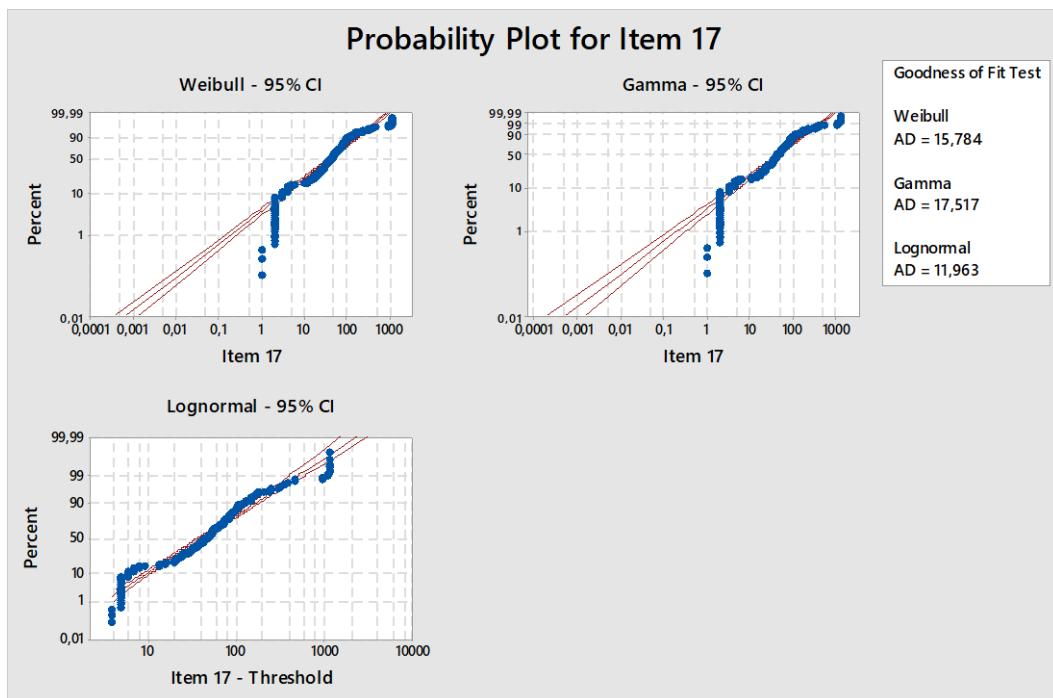


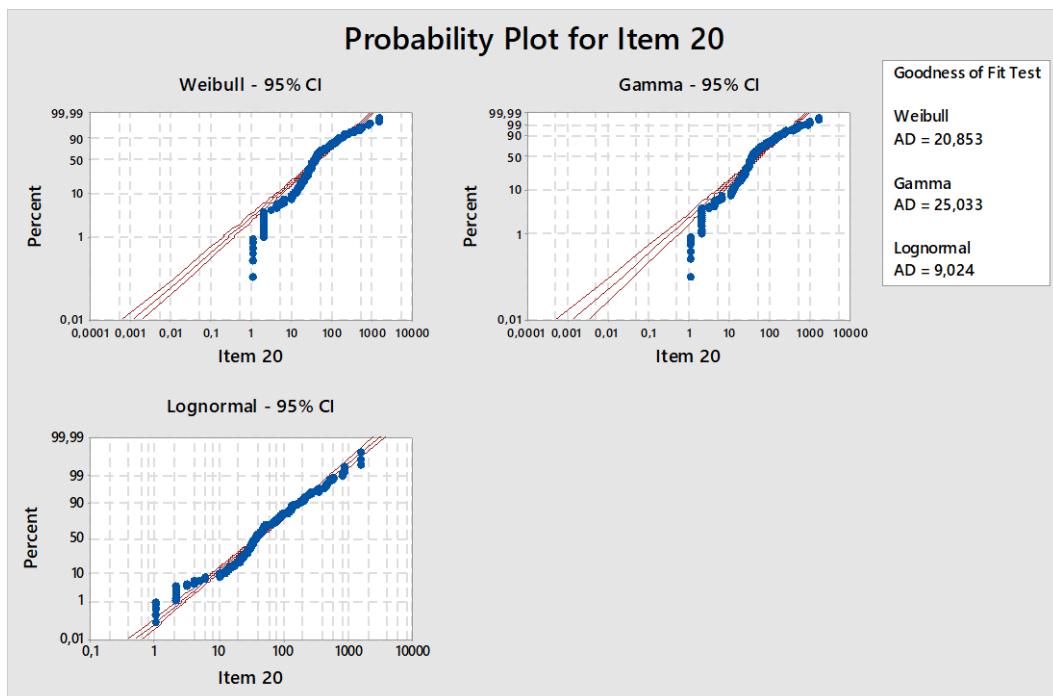
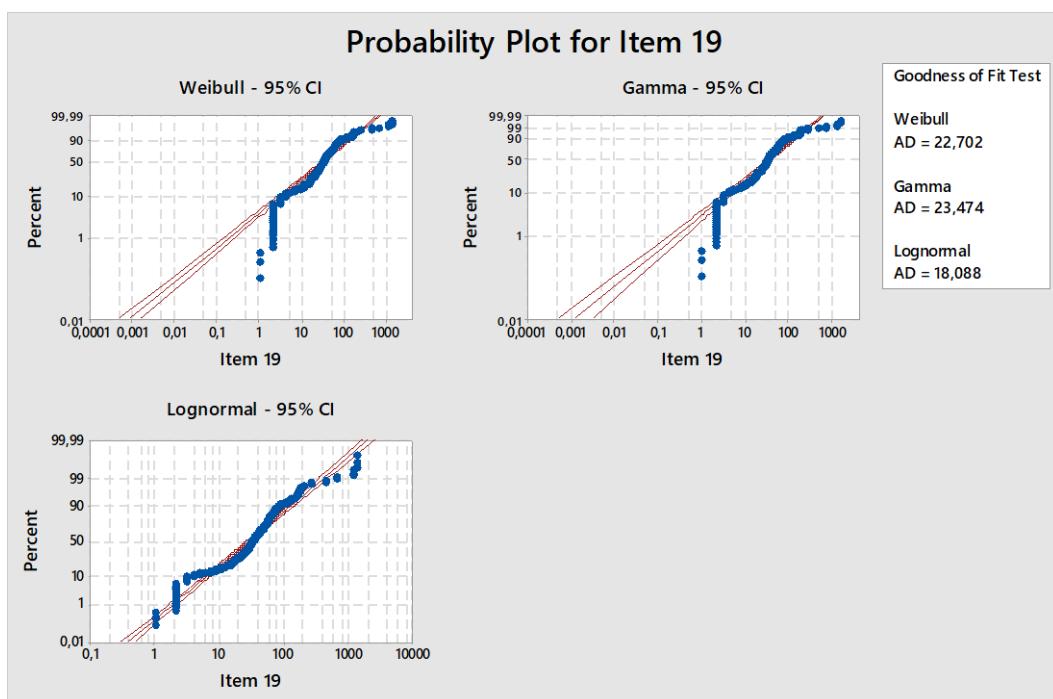


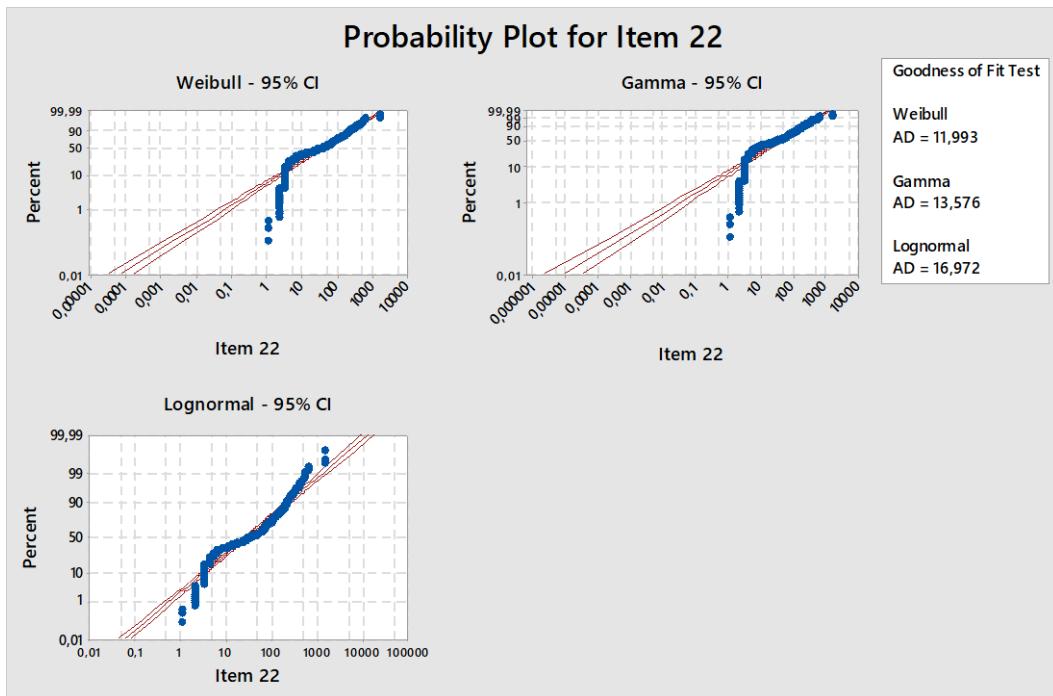
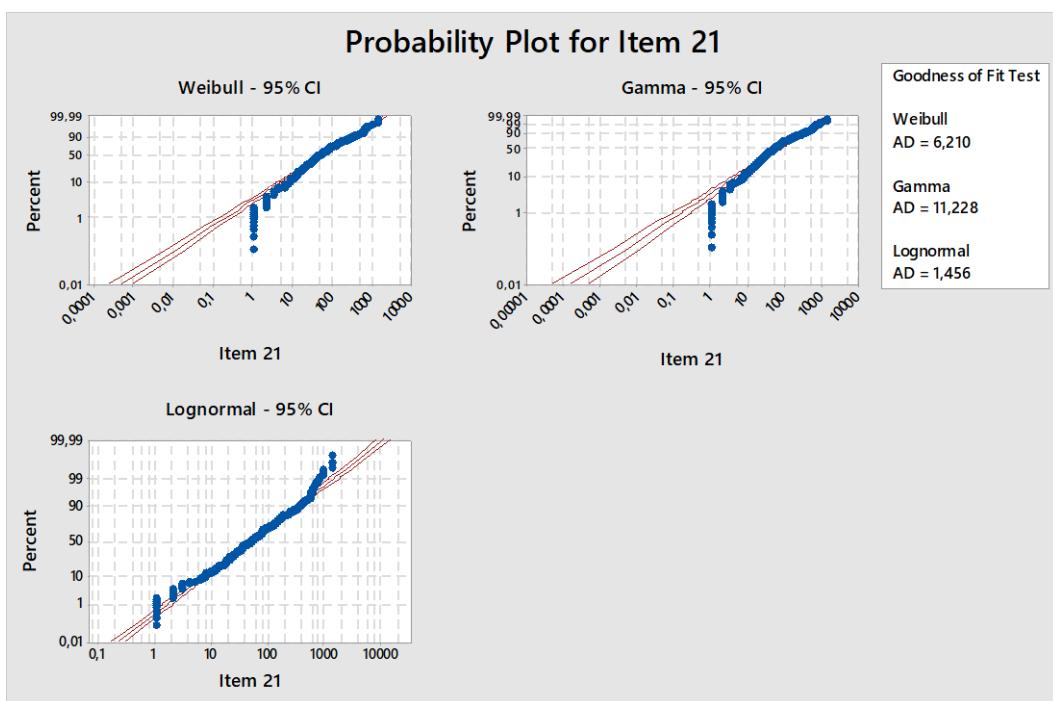


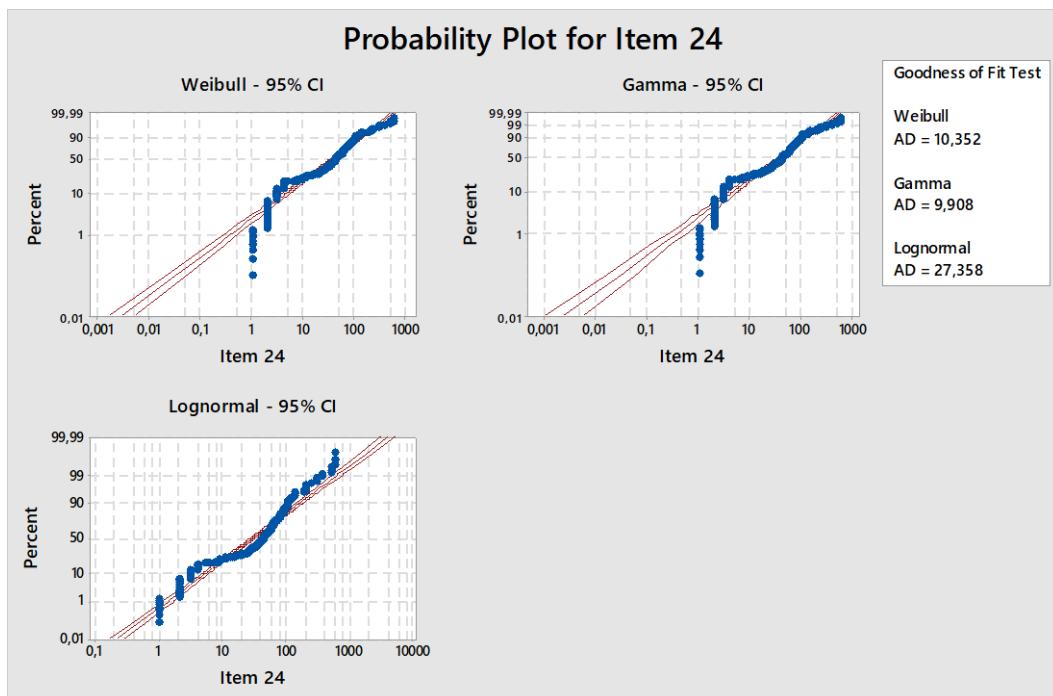
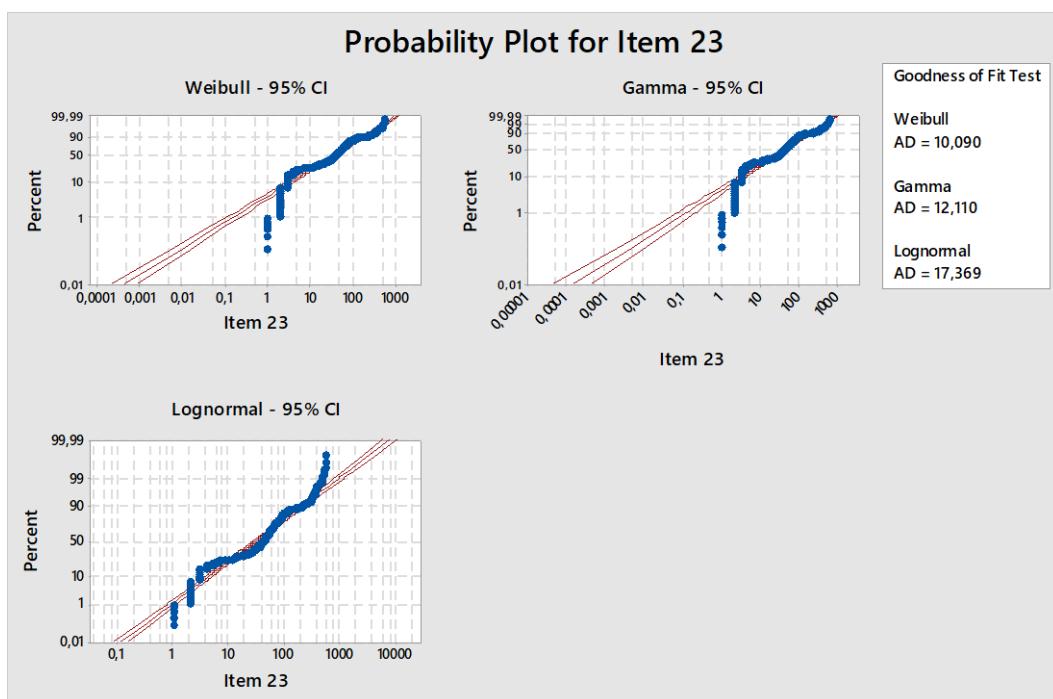


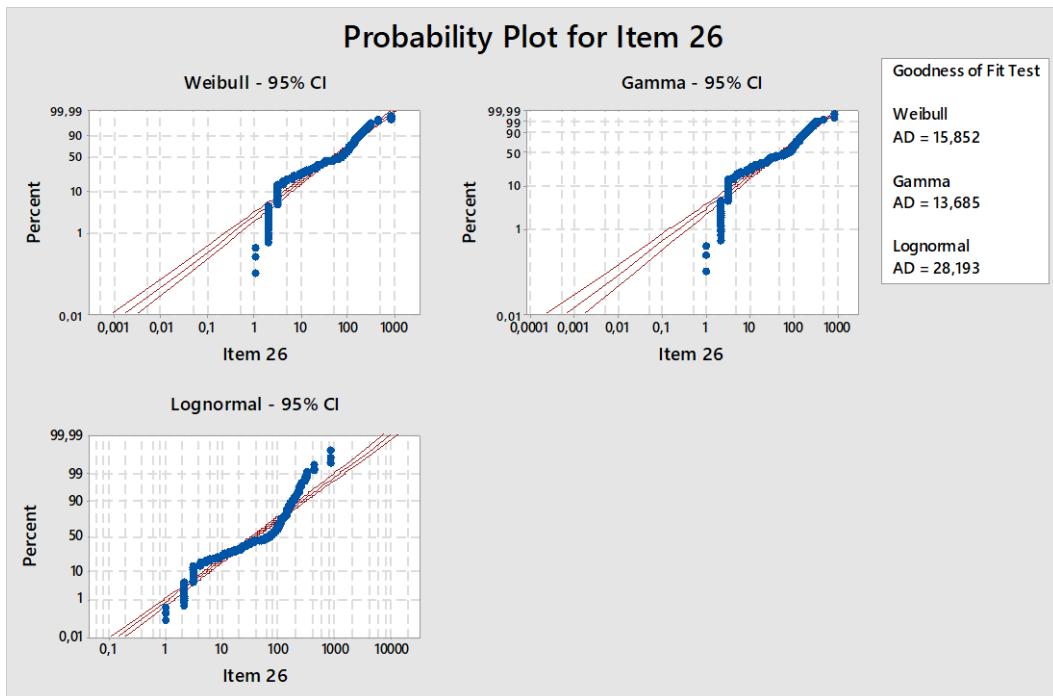
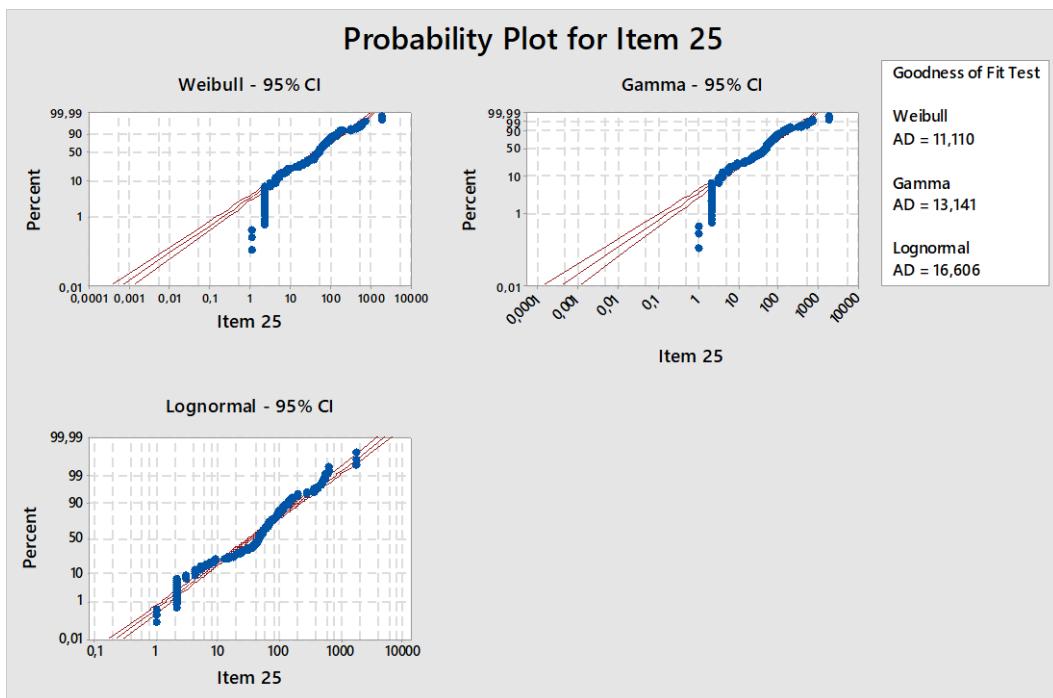


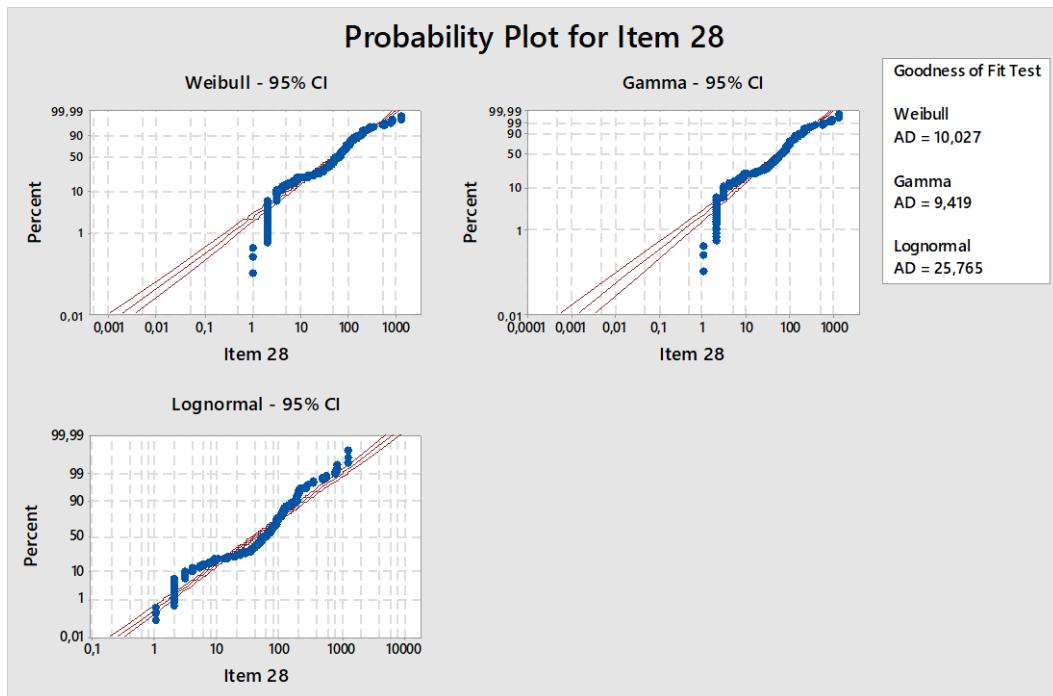
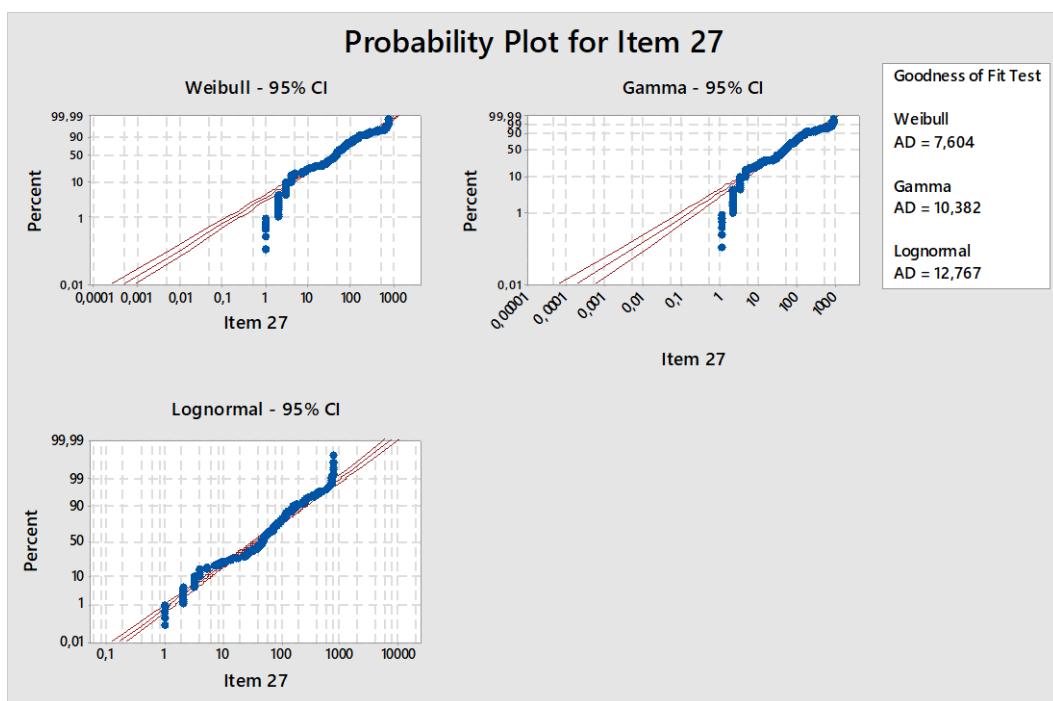


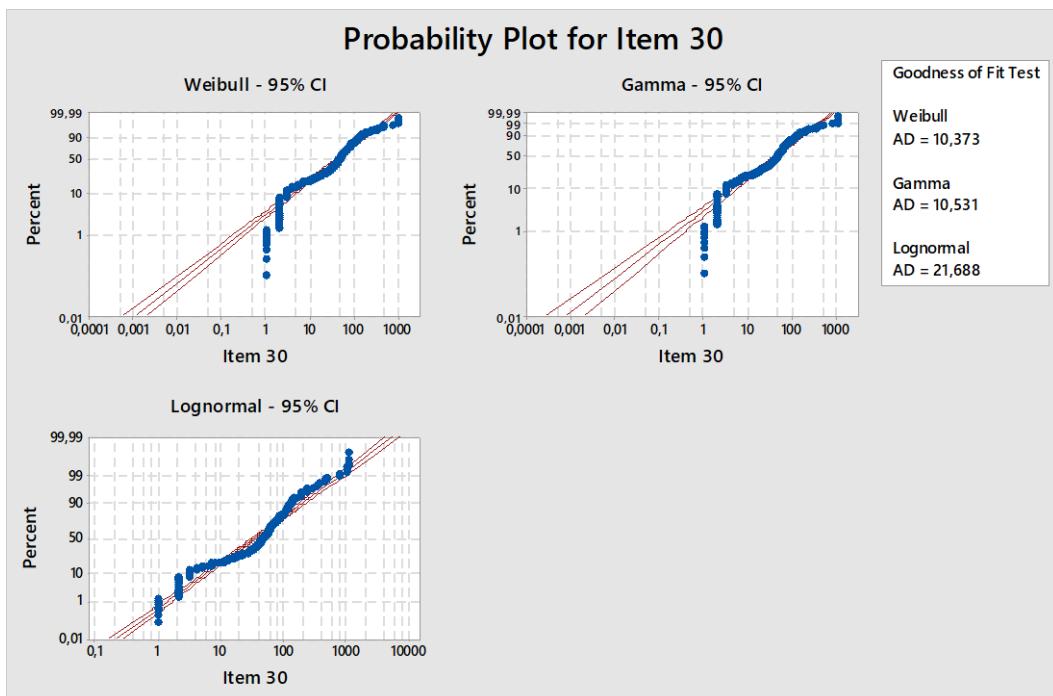
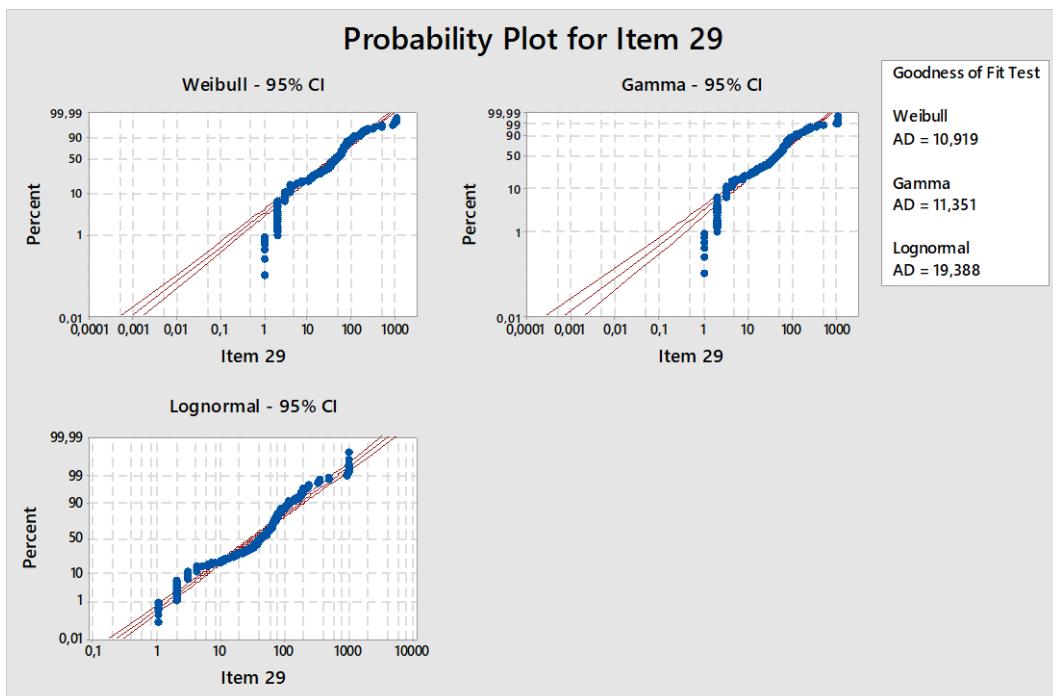




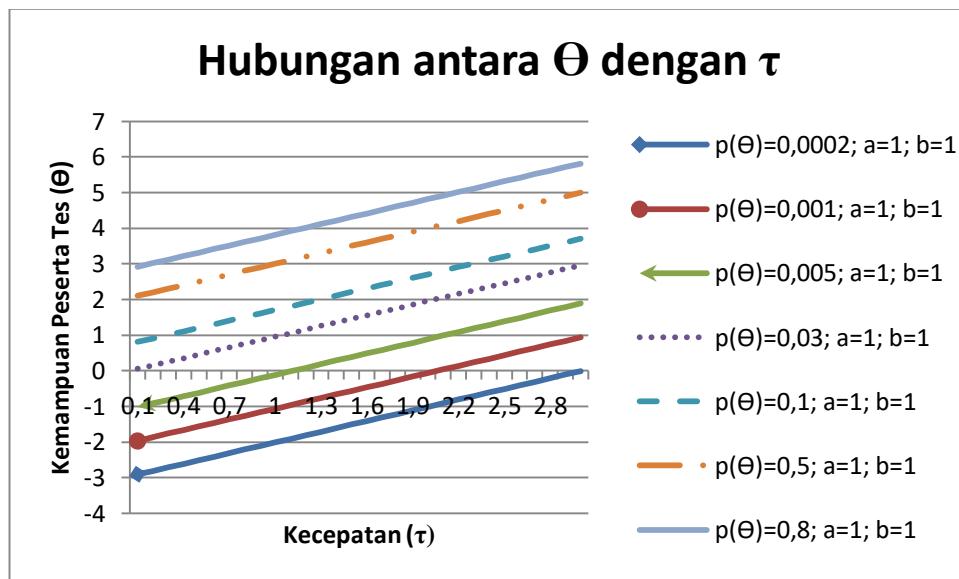
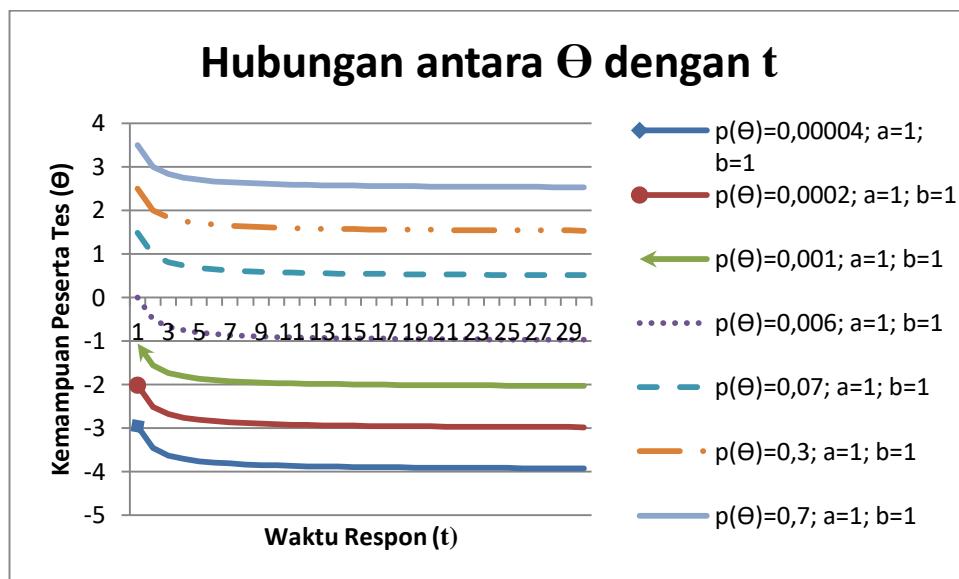








**Lampiran 8. Kurva Hubungan Theta dengan Waktu Respon dan Speed**



### Lampiran 9. Contoh Syntax Program R untuk Pembangkitan Data

```
databangkitan<-function(n,m,theta,b,a,xi,tau,sigma)
{
  set.seed(1)
  mu<-matrix(0,nrow=n,ncol=m)
  t<-matrix(0,nrow=n,ncol=m)
  prob<-matrix(0,nrow=n,ncol=m)
  X<-matrix(0,nrow=n,ncol=m)
  for(i in 1:n){
    for(j in 1:m){
      mu[i,j]<-xi[j]-tau[i]
      t[i,j]<-rlnorm(1,mu[i,j],sigma)
      prob[i,j]<-exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j]))/(1+exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j])))
      X[i,j]<-rbinom(1,1,prob[i,j])
    }
  }

  hasil<-list(x=X,t=t)
  return(hasil)
}

n<-300
m<-10
a<-qnorm(runif(m,pnorm(0.4),pnorm(2)))
b<-seq(-2,2,0.4)
theta<-qnorm(runif(n,pnorm(-3),pnorm(3)))
tau<-qnorm(runif(n,pnorm(0),pnorm(3)))
xi<-qnorm(runif(m,pnorm(0),pnorm(3)))
sigma<-1
dataxt_n300m10<-databangkitan(n,m,theta,b,a,xi,tau,sigma)

write.csv(dataxt_n300m10,"dataxt_n300m10.csv")
dput(dataxt_n300m10,"dataxt_n300m10.txt")

dput(theta,"theta.txt")
dput(b,"b.txt")
dput(a,"a.txt")
dput(xi,"xi.txt")
dput(tau,"tau.txt")
dput(sigma,"sigma.txt")
```

**Lampiran 10. Contoh Syntax Program R untuk Estimasi Parameter  
(Bagian 1)**

```
#R Bagian 1
rbagian1<-function(n,m,theta,b,a,xi,tau,sigma)
{
  set.seed(1)
  mu<-matrix(0,nrow=n,ncol=m)
  t<-matrix(0,nrow=n,ncol=m)
  prob<-matrix(0,nrow=n,ncol=m)
  X<-matrix(0,nrow=n,ncol=m)
  for(i in 1:n){
    for(j in 1:m){
      mu[i,j]<-xi[j]-tau[i]
      t[i,j]<-rlnorm(1,mu[i,j],sigma)
      prob[i,j]<-exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j]))/(1+exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j])))
      X[i,j]<-rbinom(1,1,prob[i,j])
    }
  }

  hasil<-list(x=X,t=t)
  return(hasil)
}
```

**Lampiran 11. Contoh Syntax Program R untuk Estimasi Parameter  
(Bagian 2)**

```
#R Bagian 2
n<-300
m<-10

a<-c(1.03463609470676, 0.809734366558335,
0.954705575731182, 0.505482766886976,
1.35264755280054, 1.07311009920383,
1.36989599118108, 1.28913594168341,
1.07131364562801, 0.750665641730796)

b<-c(-2, -1.6, -1.2, -0.8, -0.4, 0.4, 0.8, 1.2, 1.6, 2)

theta<-c(1.08553432502327, 0.213267178409211,
0.596965119093555, -0.654057138166186, 0.495585064339674,
1.68551347631689, -0.456743257198985, -1.44657541679846,
0.914165828695203, -0.256904868620158, -0.40916642448521, -
0.954591251970247,
-0.823291901169591, -0.248154633184465, 0.0457096198238085,
-0.747644137831887, 0.0248948610203639, 0.506389060614523, -
0.891865175911196, -0.76369241127159, -0.646972894143329, -
0.780913895931206, -0.55305287893195, -1.44481945323285,
-1.04739761772607, 0.514324884705167, -0.103050449929245, -
1.49470596524098, -1.42645554913013, 1.86281206800364, -
1.37334815539525, 0.22604437485344, -1.49043284491805,
0.220177041472624, 0.0219594137809722, -0.292198655955539,
0.0996929384696617, 2.51326602821647, -0.114808460026874,
0.324685736754136, -0.400394812087348, 0.316416801654784,
2.29567139224261, -2.03185242178942, -0.973560439775599, -
1.49074261068585, 0.894046115178856, -0.619041554023696, -
0.0914939105584095, 0.154414468921021, -0.315627865307007, -
0.969341683123312, -1.39533677078845, -0.799251272139755, -
0.154173210020507, -1.55696605410174, 0.63980115838398,
0.342456657925652, -1.39851829584723, -0.444060256413327,
-0.885624484763383, -1.41758839437597, 0.119322881343007, -
0.533315598159894, 0.922090895409337, -0.151384039282106, -
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-0.210463000424823, -0.0619482617584055, 0.868331721565853,
-0.220929857176395, 1.54871456100145, -0.161790185084146,
0.217589799602481, 0.335900856198955, 0.404996140361728,
1.07731080389198, -0.257494616460555, 1.02619151787458,
```

0.882164089372238, -0.352434404927052, 0.556854458759324,  
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 0.947074633839069, -0.393927340959071, 1.07917061463535,  
 -0.476138008543073, -1.48604075645831, -0.16255005762782, -  
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 0.736187603450082, -0.0998250904276028, -0.270380109027822,  
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 0.8465056364401, 0.777436264292581, -1.20281948960341, -  
 0.784476313966811, 1.05350929370924, -0.585138084456738,  
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 0.959906396506421, 0.127843459397217, 0.0994228887600997,  
 0.603750997085885, -0.650867647471732, 0.393806662081098,  
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 0.223026159280575, -0.135379328453811, -0.29819043969299,  
 0.572604985179614, 0.845212073180311, -2.34264061750622,  
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 0.58648667439897, -0.859714851495679, 0.666091928460809, -  
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 0.141817312577188, -0.33848553770926, 0.861278537715532,  
 -0.205835229808466, -0.0218454402318098, 0.129373083522524,  
 -0.263999298825362, 1.54574189083608, -0.910037206669962,  
 0.790154886712743, -1.12985453173668, -1.13257359797723,  
 0.76204194413242, -0.200957402212734, 0.568991488604011,  
 -1.01841613424671, -1.34477900182359, -0.820999398355348, -  
 2.00508840992321, 0.240797400726935, 0.588686554240451,  
 0.0974066464935146, -1.40537644434661, -1.29757809465311,  
 1.59939275579208, -0.288406703591511, 1.82351313856962,  
 0.589088278133546, 1.36118133340068, 0.942198093770208, -  
 1.24970974433259, -1.27101913151857, -1.37702942106103, -  
 0.194891284057686, -0.0195268111341555, 0.201585364016773,  
 0.162142825296978, 0.342627706132751, -0.134342475340725,

$$\begin{aligned}
& 1.18731362217147, -0.0845691502154824, -1.62921071317059, - \\
& 0.571234904811619, 1.15371823185638, 1.65543583919523, - \\
& 1.28494280305325, -0.574960975865363, 2.06295921264519, \\
& 0.301016290974971, -1.73953662632177, -0.388715168628153, \\
& 0.0287504928296421, -0.803234911030173, -0.320793438460558, \\
& -0.648847504288108, 1.19656331073515, -1.80973795289289, - \\
& 0.287632283343074, -0.0995609736774926, -0.666999903723812, \\
& 0.129052149679293, 0.375892214758847, 0.414280689685806, \\
& 1.18104369421639, 1.30506024684356, -0.379863923046426, - \\
& 1.64380385719821, -0.969329619966099, -0.553855638322123, - \\
& 0.580982412667547, -1.62823873949, 0.394408126468507, \\
& 0.288128559541604, 0.396864307964132, 2.2482473025345, \\
& -0.416658946320961, 0.869041253747151, 0.147808103089985, - \\
& 0.369068716068662, 0.0152250303674946, 1.29221908651179, \\
& 1.32811233687163, -0.154771378332045, 1.71536094396721, \\
& 0.31714750800018, -0.168525747846672, -0.070776315769768, \\
& 0.113163430456727, 0.182966430270385, 0.0894173644425901, \\
& 0.77650647452296, -0.591435876982151, -1.25082185036911, - \\
& 0.64129618544166, 1.97029062927172, -0.807051844071517, - \\
& 0.349789971764372, 0.461347030370815, 0.399896097717047, \\
& -2.28701418395975, 2.10371343193367, 1.01174525386334, - \\
& 0.0720706342397763, -0.0251376936682017, -0.600540671757627, \\
& 0.503069396799036, 2.02686415947647, -0.171956381390673, - \\
& 0.988056467726382, 1.43812307022186, 0.134945085139592, \\
& -2.08539961393036, -0.456278239565517, 0.775063334842906, - \\
& 0.048290333314631, -0.568593805486399, -0.191768380044047, - \\
& 1.02573202428943, -1.01691492133127, 0.0472702382511663)
\end{aligned}$$

$$\begin{aligned}
\text{tau} <- c( & 0.0936525345223197, 1.51646677924036, \\
& 1.21274777032708, 0.00232126893540459, 1.16308550098427, \\
& 0.684750420455409, 0.184500066199135, 0.922987725369776, \\
& 0.0862779114689084, 2.00084241806993, 0.655599796138032, \\
& 0.142694681973869, \\
& 1.35569142534648, 0.0636749647319515, 0.33710649558952, \\
& 0.822886904305304, 0.336322513628665, 1.02198761965496, \\
& 0.192371605716905, 0.9708802635367, 1.23412296575952, \\
& 0.0232893405164698, 1.56595622446704, 0.885799015271303, \\
& 1.60909107632273, 0.0135403402158849, 0.309651595205174, \\
& 0.27088664093436, 0.378753353154567, 0.531979802223917, \\
& 0.729009466900754, 1.46418828104144, 1.42584061957594, \\
& 0.00727024772852277, 1.02998947744758, 0.750893703107446, \\
& 0.386994206453773, 0.113000883320635, 1.12280150105951, \\
& 0.673888747298315, 0.888356738757776, 1.38090625077231, \\
& 1.03162444073255, 1.46085354052137, 0.0843511621708343, \\
& 0.879171686523204, 0.635547440040418, 0.0554794750491167,
\end{aligned}$$

0.785996274200408, 1.37867996298959, 0.215077831012945,  
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 0.0507752029751561, 0.811671830227454, 0.14016557965243,  
 0.164836458092672, 1.06795875135361, 0.892542575078224,  
 1.79647879694996, 0.624542357894992, 0.391954248533773,  
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 1.45654154483236, 0.908147260207143, 0.41795247578979,  
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 0.170761643079306, 0.124596249276711, 0.894201360802346,  
 1.01266661166265, 0.127214234767698, 0.68231939733276,  
 0.394845394588801, 0.0710163409567963, 0.631922352741038,  
 0.481094488703993, 0.0610025750257028, 0.317058692569035,  
 0.667285142234347, 1.15320359552907, 1.33814551060138,  
 0.081419638369591, 0.929695525843327, 1.17362299265247,  
 0.294844698800656, 0.820306740510603, 1.16758549615922,  
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 1.78885998851721, 0.0187412059187915, 0.723472725303115,  
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 0.907230366058424, 1.57922147447643, 1.15445966230139,  
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 2.30786135385073, 0.849156939345337, 0.0167398776488987,  
 0.0222392023613661, 0.134596911556567, 0.220776260384701,  
 1.21425964743664, 0.320294724344249, 0.769677322435319,  
 0.679966554569663, 0.831139836012299, 0.484876545505646,  
 0.994258264206635, 2.07782118325281, 0.396689904207369,  
 0.334101887411885, 0.342754251100848, 0.0512916998868387,  
 0.685381021635683, 0.65938021154668, 0.438460340738628,  
 0.94867317555622, 0.950409621489885, 0.324324572326027,  
 0.113242420132007, 1.33140120932147, 0.0869279499714819,  
 0.548688799797752, 1.42491028699737, 1.52836815523942,  
 0.0164670100124856, 1.63017648390741, 0.0633547195262716,  
 1.34287977656864, 0.911213445409486, 0.634938994231722)

```

xi<-c(0.688888043538206, 0.0275476517629961,
0.582995386427493, 1.76943178861612, 1.24904867402259,
0.204247665785973, 0.361366735754972, 0.80552697037531,
1.07563869440952, 0.414484022337224)
  
```

```
sigma<-1  
  
source('rbagian1.R')  
dataxt_n300m10<-rbagian1(n,m,theta,b,a,xi,tau,sigma)  
  
write.csv(dataxt_n300m10,"dataxt_n300m10.csv")  
dput(dataxt_n300m10,"dataxt_n300m10.txt")
```

**Lampiran 12. Contoh *Syntax* Program R untuk Estimasi Parameter  
(Bagian 3)**

```
#R Bagian 3

library(R2WinBUGS)
setwd("E:/SIMULASI/n300m10 - Copy1")
fn<-dget("dataxt_n300m10.txt")
n<-300
m<-10
parameters<-c("theta","b","a","xi","tau","sigma","rx")

dataxt.fit<-
bugs(fn,inits=NULL,parameters,"winbugse.bug",n.chain=1,n.ite
r=15100,n.burnin=100,n.thin=3,bugs.directory="E:/SIMULASI/Wi
nBUGS14 ITS",debug=TRUE)

,"ppp.or","ts.resultrx[1]","ts.resultrx[2]","ts.resultrx[3]"
,"ts.resultrx[4]","ts.resultrx[5]","ts.resultrx[6]","ts.resu
ltrx[7]","ts.resultrx[8]","ts.resultrx[9]","ts.resultrx[10]"
)
```

### Lampiran 13. Contoh WinBUGS Code untuk Estimasi Parameter

```

model{
for (i in 1:300){
theta[i]~dnorm(0,1)
tau[i]~dnorm(0,1)(0,)

for (j in 1:10){
x[i,j] ~ dbern( pi[i,j] )
pi[i,j]<-exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j]))/(1+exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j])))
t[i,j]~dnorm(mu[i,j],sigma)
mu[i,j]<-xi[j]-tau[i]
mx[i,j]<-1-x[i,j]
rx[i,j]~dbern(pi[i,j])
mrx[i,j]<-1-rx[i,j]
}
totalrx[i]<-sum(rx[i,])
totalx[i]<-sum(x[i,])
}

# priors
for (j in 1:10){
b[j]~dnorm(0,1)
a[j]~dnorm(0,1)(0,.)
xi[j]~dnorm(0,1)(0,.)
}
sigma ~ dunif (0,1)

#compute odd ratio &PPPvalue
for(k in 2:10){
for(l in 1: (k-1)){
or.rep[k,l]<-
inprod(rx[1:300,l],rx[1:300,k])*inprod(mrx[1:300,l],mrx[1:300,k])/inprod(mrx[1:300,l],rx[1:300,k])*inprod(rx[1:300,]
,mrx[1:300,k])
or[k,l]<-
inprod(x[1:300,l],x[1:300,k])*inprod(mx[1:300,l],mx[1:300,k])/inprod(mx[1:300,l],x[1:300,k])*inprod(x[1:300,l],mx[1
:300,k])
ppp.or[k,l]<-step(or.rep[k,l]-or[k,l])
}
}
for(i in 1:300)
{
scorerx0[i] <-equals(totalrx[i],0)
scorerx1[i] <-equals(totalrx[i],1)
scorerx2[i] <-equals(totalrx[i],2)
scorerx3[i] <-equals(totalrx[i],3)
scorerx4[i] <-equals(totalrx[i],4)
scorerx5[i] <-equals(totalrx[i],5)
scorerx6[i] <-equals(totalrx[i],6)
scorerx7[i] <-equals(totalrx[i],7)
scorerx8[i] <-equals(totalrx[i],8)
scorerx9[i] <-equals(totalrx[i],9)
scorerx10[i] <-equals(totalrx[i],10)

scorex0[i] <-equals(totalx[i],0)
scorex1[i] <-equals(totalx[i],1)
scorex2[i] <-equals(totalx[i],2)
scorex3[i] <-equals(totalx[i],3)
scorex4[i] <-equals(totalx[i],4)
scorex5[i] <-equals(totalx[i],5)
scorex6[i] <-equals(totalx[i],6)
scorex7[i] <-equals(totalx[i],7)
scorex8[i] <-equals(totalx[i],8)
scorex9[i] <-equals(totalx[i],9)
scorex10[i] <-equals(totalx[i],10)

}
ts.resultrx[1]<-sum(scorerx0[])
ts.resultrx[2]<-sum(scorerx1[])
}

```

```
ts.resultrx[3]<-sum(scorerx2[])
ts.resultrx[4]<-sum(scorerx3[])
ts.resultrx[5]<-sum(scorerx4[])
ts.resultrx[6]<-sum(scorerx5[])
ts.resultrx[7]<-sum(scorerx6[])
ts.resultrx[8]<-sum(scorerx7[])
ts.resultrx[9]<-sum(scorerx8[])
ts.resultrx[10]<-sum(scorerx10[])

ts.resultx[1]<-sum(scorex0[])
ts.resultx[2]<-sum(scorex1[])
ts.resultx[3]<-sum(scorex2[])
ts.resultx[4]<-sum(scorex3[])
ts.resultx[5]<-sum(scorex4[])
ts.resultx[6]<-sum(scorex5[])
ts.resultx[7]<-sum(scorex6[])
ts.resultx[8]<-sum(scorex7[])
ts.resultx[9]<-sum(scorex8[])
ts.resultx[10]<-sum(scorex10[])
}
```

**Lampiran 14. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=300; m=10)**

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
a[1]	1.0346361	1.10997	tau[18]	1.02198762	1.00457667
a[2]	0.8097344	0.82899667	tau[19]	0.192371606	0.37066333
a[3]	0.9547056	0.95253	tau[20]	0.970880264	0.94823667
a[4]	0.5054828	0.47101333	tau[21]	1.234122966	1.15785333
a[5]	1.3526476	1.23747	tau[22]	0.023289341	0.27506667
a[6]	1.0731101	1.03404333	tau[23]	1.565956224	1.53666667
a[7]	1.369896	1.36203333	tau[24]	0.885799015	0.91779333
a[8]	1.2891359	1.42288	tau[25]	1.609091076	1.55386667
a[9]	1.0713136	1.24420333	tau[26]	0.01354034	0.233135
a[10]	0.7506656	1.08282	tau[27]	0.309651595	0.41396667
b[1]	-2	-1.9478	tau[28]	0.270886641	0.43949667
b[2]	-1.6	-1.4491	tau[29]	0.378753353	0.49941333
b[3]	-1.2	-1.1182367	tau[30]	0.531979802	0.46312
b[4]	-0.8	-0.7083567	tau[31]	0.729009467	0.77679333
b[5]	-0.4	-0.2690983	tau[32]	1.464188281	1.30724
b[6]	0.4	0.64027333	tau[33]	1.42584062	1.36454
b[7]	0.8	1.04828	tau[34]	0.007270248	0.26463667
b[8]	1.2	1.34066667	tau[35]	1.029989477	0.92816
b[9]	1.6	1.71053333	tau[36]	0.750893703	0.74202
b[10]	2	1.70966667	tau[37]	0.386994206	0.52579667
tau[1]	0.093652535	0.29844333	tau[38]	0.113000883	0.23331
tau[2]	1.516466779	1.43320667	tau[39]	1.122801501	1.14686667
tau[3]	1.21274777	1.14975333	tau[40]	0.673888747	0.63783667
tau[4]	0.002321269	0.28651667	tau[41]	0.888356739	0.83838
tau[5]	1.163085501	1.18313333	tau[42]	1.380906251	1.2352
tau[6]	0.68475042	0.57702	tau[43]	1.031624441	0.90457333
tau[7]	0.184500066	0.31741	tau[44]	1.460853541	1.41266667
tau[8]	0.922987725	0.8994	tau[45]	0.084351162	0.37298667
tau[9]	0.086277911	0.30753333	tau[46]	0.879171687	1.00343
tau[10]	2.000842418	1.8837	tau[47]	0.63554744	0.55611333
tau[11]	0.655599796	0.68917	tau[48]	0.055479475	0.30082333
tau[12]	0.142694682	0.36617	tau[49]	0.785996274	0.80316667
tau[13]	1.355691425	1.27683333	tau[50]	1.378679963	1.36041
tau[14]	0.063674965	0.31164333	tau[51]	0.215077831	0.32649667
tau[15]	0.337106496	0.39679	tau[52]	1.360777594	1.35362
tau[16]	0.822886904	0.89293	tau[53]	0.988075422	0.92241
tau[17]	0.336322514	0.44462333	tau[54]	0.715833393	0.78882667

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[55]	1.330399133	1.26309	tau[94]	1.857429197	1.76383333
tau[56]	1.979238698	1.7969	tau[95]	0.170072217	0.30951333
tau[57]	0.265658012	0.36102667	tau[96]	1.558788119	1.48198667
tau[58]	0.050775203	0.31567667	tau[97]	0.480058489	0.51849333
tau[59]	0.81167183	0.77919667	tau[98]	0.796091222	0.82131667
tau[60]	0.14016558	0.3413	tau[99]	0.82290696	0.83309333
tau[61]	0.164836458	0.42128333	tau[100]	0.820160163	0.76649333
tau[62]	1.067958751	0.97746333	.....	.....	.....
tau[63]	0.892542575	0.83119667	tau[201]	0.439131066	0.47439
tau[64]	1.796478797	1.68453333	tau[202]	0.397743477	0.46881667
tau[65]	0.624542358	0.57006333	tau[203]	0.70400783	0.76790667
tau[66]	0.391954249	0.50375667	tau[204]	0.580079593	0.67556
tau[67]	1.340096982	1.24735	tau[205]	0.582112843	0.50695
tau[68]	0.748911444	0.83854333	tau[206]	0.063947224	0.30282333
tau[69]	0.287381608	0.43971	tau[207]	0.693211253	0.63156333
tau[70]	0.13664204	0.34707333	tau[208]	2.434513546	2.27666667
tau[71]	1.28532489	1.29426333	tau[209]	1.00003719	1.01366333
tau[72]	1.439000043	1.29586	tau[210]	1.622974436	1.44963667
tau[73]	0.438944411	0.49436667	tau[211]	0.170761643	0.40046667
tau[74]	0.158495618	0.37072333	tau[212]	0.124596249	0.34596667
tau[75]	0.653213432	0.65096333	tau[213]	0.894201361	0.82507667
tau[76]	1.456541545	1.32202333	tau[214]	1.012666612	0.94353667
tau[77]	0.90814726	0.74125333	tau[215]	0.127214235	0.31714333
tau[78]	0.417952476	0.49198333	tau[216]	0.682319397	0.75388333
tau[79]	1.675941717	1.56816667	tau[217]	0.394845395	0.52220667
tau[80]	0.222122724	0.40051667	tau[218]	0.071016341	0.29673667
tau[81]	0.446328262	0.51869	tau[219]	0.631922353	0.67107333
tau[82]	0.946856374	0.78495	tau[220]	0.481094489	0.46919667
tau[83]	1.175224622	1.12511333	tau[221]	0.061002575	0.3622
tau[84]	0.348300576	0.39426	tau[222]	0.317058693	0.48755667
tau[85]	0.082808472	0.26114333	tau[223]	0.667285142	0.77878667
tau[86]	0.469592974	0.60366	tau[224]	1.153203596	0.9955
tau[87]	0.203675974	0.31425667	tau[225]	1.338145511	1.15681
tau[88]	0.059864343	0.25651367	tau[226]	0.081419638	0.36131433
tau[89]	0.658815802	0.65459	tau[227]	0.929695526	0.91753667
tau[90]	0.441550184	0.48554667	tau[228]	1.173622993	0.94858
tau[91]	0.947665574	0.86423	tau[229]	0.294844699	0.40970333
tau[92]	0.05208243	0.27893	tau[230]	0.820306741	0.87853333
tau[93]	0.960451781	0.85198667	tau[231]	1.167585496	1.09035

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[232]	0.44615111	0.49679333	tau[271]	1.214259647	1.10661333
tau[233]	0.435546507	0.57140333	tau[272]	0.320294724	0.43721
tau[234]	0.64813297	0.66367333	tau[273]	0.769677322	0.80077333
tau[235]	1.788859989	1.63053333	tau[274]	0.679966555	0.68907333
tau[236]	0.018741206	0.21407667	tau[275]	0.831139836	0.76473333
tau[237]	0.723472725	0.79077	tau[276]	0.484876546	0.64264667
tau[238]	0.053673813	0.32336	tau[277]	0.994258264	0.97621
tau[239]	0.580578336	0.61925333	tau[278]	2.077821183	1.88243333
tau[240]	0.447648469	0.53245333	tau[279]	0.396689904	0.44024667
tau[241]	1.41443527	1.38843	tau[280]	0.334101887	0.46222667
tau[242]	0.248754522	0.33964667	tau[281]	0.342754251	0.37474333
tau[243]	0.890611195	0.85277	tau[282]	0.0512917	0.25879333
tau[244]	0.364867853	0.44752333	tau[283]	0.685381022	0.68500333
tau[245]	0.36008644	0.41380333	tau[284]	0.659380212	0.62748667
tau[246]	0.554926591	0.57085	tau[285]	0.438460341	0.62646667
tau[247]	1.656318029	1.54197	tau[286]	0.948673176	0.96125
tau[248]	0.573865276	0.61703333	tau[287]	0.950409621	0.73164
tau[249]	0.160443353	0.37821333	tau[288]	0.324324572	0.40602333
tau[250]	1.102506945	1.02836333	tau[289]	0.11324242	0.34352333
tau[251]	0.238799503	0.42967667	tau[290]	1.331401209	1.18015
tau[252]	0.686239219	0.66201667	tau[291]	0.08692795	0.2634
tau[253]	0.402636953	0.52742	tau[292]	0.5486888	0.67579333
tau[254]	1.095018662	1.02997	tau[293]	1.424910287	1.33731
tau[255]	0.821017382	0.64570667	tau[294]	1.528368155	1.32107667
tau[256]	1.08105438	1.06174333	tau[295]	0.01646701	0.32973667
tau[257]	0.631409038	0.61478333	tau[296]	1.630176484	1.54965667
tau[258]	1.211587949	1.12167667	tau[297]	0.06335472	0.29836667
tau[259]	0.907230366	0.96556	tau[298]	1.342879777	1.36580667
tau[260]	1.579221474	1.41674667	tau[299]	0.911213445	0.95439
tau[261]	1.154459662	0.92580333	tau[300]	0.634938994	0.59526
tau[262]	0.049286424	0.26594667	theta[1]	1.085534325	0.922633
tau[263]	0.498091496	0.53884333	theta[2]	0.213267178	-0.1731657
tau[264]	0.809078553	0.66304	theta[3]	0.596965119	-0.007726
tau[265]	2.307861354	2.13476667	theta[4]	-0.65405714	-0.1671959
tau[266]	0.849156939	0.85270667	theta[5]	0.495585064	0.23982867
tau[267]	0.016739878	0.26302333	theta[6]	1.685513476	1.15834333
tau[268]	0.022239202	0.27587	theta[7]	-0.45674326	-0.328337
tau[269]	0.134596912	0.35125333	theta[8]	-1.44657542	-0.5888297
tau[270]	0.22077626	0.35151667	theta[9]	0.914165829	0.92133667

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[10]	-0.25690487	-0.1554531	theta[49]	-0.09149391	0.011746
theta[11]	-0.40916642	-0.304021	theta[50]	0.154414469	-0.1466323
theta[12]	-0.95459125	-0.68441	theta[51]	-0.31562787	-0.1793763
theta[13]	-0.8232919	-0.4333153	theta[52]	-0.96934168	-0.3351203
theta[14]	-0.24815463	0.0196752	theta[53]	-1.39533677	-0.610708
theta[15]	0.04570962	0.31123383	theta[54]	-0.79925127	-0.4587577
theta[16]	-0.74764414	-0.5520393	theta[55]	-0.15417321	-0.255428
theta[17]	0.024894861	-0.0040528	theta[56]	-1.55696605	-0.2514267
theta[18]	0.506389061	0.13684567	theta[57]	0.639801158	0.54675
theta[19]	-0.89186518	-0.5172718	theta[58]	0.342456658	0.36589367
theta[20]	-0.76369241	-0.654246	theta[59]	-1.3985183	-0.8277047
theta[21]	-0.64697289	-0.43559	theta[60]	-0.44406026	-0.0802788
theta[22]	-0.7809139	-0.556234	theta[61]	-0.88562449	-0.4078937
theta[23]	-0.55305288	-0.2849227	theta[62]	-1.41758839	-0.6507933
theta[24]	-1.44481945	-0.6284556	theta[63]	0.119322881	-0.114971
theta[25]	-1.04739762	-0.2592186	theta[64]	-0.5333156	-0.2614253
theta[26]	0.514324885	0.59489367	theta[65]	0.922090895	0.55107633
theta[27]	-0.10305045	-0.0285613	theta[66]	-0.15138404	-0.12192
theta[28]	-1.49470597	-0.86056	theta[67]	-0.67818031	-0.351082
theta[29]	-1.42645555	-0.6694333	theta[68]	-0.94719668	-0.7613107
theta[30]	1.862812068	1.28583733	theta[69]	-0.12906375	-0.0214233
theta[31]	-1.37334816	-0.6326808	theta[70]	-1.62995298	-0.872148
theta[32]	0.226044375	-0.119408	theta[71]	0.125074838	-0.1051501
theta[33]	-1.49043285	-0.4832867	theta[72]	1.3841146	0.43084333
theta[34]	0.220177041	0.31977567	theta[73]	-0.210463	-0.142827
theta[35]	0.021959414	-0.312715	theta[74]	-0.06194826	0.17353433
theta[36]	-0.29219866	-0.2475587	theta[75]	0.868331722	0.49201867
theta[37]	0.099692938	0.07677573	theta[76]	-0.22092986	-0.1170397
theta[38]	2.513266028	2.063	theta[77]	1.548714561	1.06961467
theta[39]	-0.11480846	-0.0872497	theta[78]	-0.16179019	-0.1764577
theta[40]	0.324685737	0.2244603	theta[79]	0.2175898	0.00165333
theta[41]	-0.40039481	-0.2552053	theta[80]	0.335900856	0.29525833
theta[42]	0.316416802	-0.0362182	theta[81]	0.40499614	0.20765167
theta[43]	2.295671392	1.53916667	theta[82]	1.077310804	0.69789333
theta[44]	-2.03185242	-0.482401	theta[83]	-0.25749462	-0.2645223
theta[45]	-0.97356044	-0.577808	theta[84]	1.026191518	0.79855767
theta[46]	-1.49074261	-0.6379637	theta[85]	0.882164089	0.79353783
theta[47]	0.894046115	0.56896433	theta[86]	-0.35243441	-0.1913993
theta[48]	-0.61904155	-0.3931598	theta[87]	0.556854459	0.56056733

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[88]	1.071061493	1.09543
theta[89]	0.181288215	0.073615
theta[90]	-0.21473213	-0.2740093
theta[91]	1.439954263	1.026679
theta[92]	0.183057772	0.33591247
theta[93]	0.372147422	-0.0024901
theta[94]	0.947074634	0.227249
theta[95]	-0.39392734	-0.304494
theta[96]	1.079170615	0.21496933
theta[97]	-0.47613801	-0.343016
theta[98]	-1.48604076	-0.8484133
theta[99]	-0.16255006	-0.4618167
theta[100]	-0.64193412	-0.4282903
.....	.....	.....
theta[201]	0.588686554	0.33806867
theta[202]	0.097406646	0.03276157
theta[203]	-1.40537644	-0.7201552
theta[204]	-1.2975781	-0.6273182
theta[205]	1.599392756	1.17949333
theta[206]	-0.2884067	-0.1265967
theta[207]	1.823513139	1.15640667
theta[208]	0.589088278	0.01412309
theta[209]	1.361181333	0.81674833
theta[210]	0.942198094	0.21279747
theta[211]	-1.24970974	-0.7015547
theta[212]	-1.27101913	-0.7834147
theta[213]	-1.37702942	-0.8104033
theta[214]	-0.19489128	-0.1666301
theta[215]	-0.01952681	0.09572833
theta[216]	0.201585364	0.07314133
theta[217]	0.162142825	0.350342
theta[218]	0.342627706	0.39924367
theta[219]	-0.13434248	-0.2180257
theta[220]	1.187313622	0.8997892
theta[221]	-0.08456915	0.00915167
theta[222]	-1.62921071	-0.87997
theta[223]	-0.57123491	-0.3446607
theta[224]	1.153718232	0.67760567
theta[225]	1.655435839	1.06059333

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[226]	-1.2849428	-0.6539889
theta[227]	-0.57496098	-0.2956717
theta[228]	2.062959213	1.37845667
theta[229]	0.301016291	0.28705067
theta[230]	-1.73953663	-0.75639
theta[231]	-0.38871517	-0.36437
theta[232]	0.028750493	0.0106103
theta[233]	-0.80323491	-0.4930087
theta[234]	-0.32079344	-0.2287047
theta[235]	-0.6488475	-0.265178
theta[236]	1.196563311	1.01397
theta[237]	-1.80973795	-0.79698
theta[238]	-0.28763228	-0.111893
theta[239]	-0.09956097	-0.1682782
theta[240]	-0.6669999	-0.575887
theta[241]	0.12905215	-0.0624161
theta[242]	0.375892215	0.33977767
theta[243]	0.41428069	0.35355933
theta[244]	1.181043694	0.93401433
theta[245]	1.305060247	1.03617883
theta[246]	-0.37986392	-0.2771423
theta[247]	-1.64380386	-0.3916667
theta[248]	-0.96932962	-0.5793363
theta[249]	-0.55385564	-0.3044017
theta[250]	-0.58098241	-0.3166233
theta[251]	-1.62823874	-0.921262
theta[252]	0.394408126	0.226799
theta[253]	0.28812856	0.2446177
theta[254]	0.396864308	0.09311167
theta[255]	2.248247303	1.64899667
theta[256]	-0.41665895	-0.3939543
theta[257]	0.869041254	0.618254
theta[258]	0.147808103	-0.2099189
theta[259]	-0.36906872	-0.2587022
theta[260]	0.01522503	-0.2326367
theta[261]	1.292219087	0.75390333
theta[262]	1.328112337	1.37543667
theta[263]	-0.15477138	0.125483
theta[264]	1.715360944	1.12676067

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[265]	0.317147508	-0.1293845	theta[288]	-0.17195638	-0.0538809
theta[266]	-0.16852575	-0.0548893	theta[289]	-0.98805647	-0.50559
theta[267]	-0.07077632	0.15198073	theta[290]	1.43812307	0.70078667
theta[268]	0.11316343	0.33189067	theta[291]	0.134945085	0.23045967
theta[269]	0.18296643	0.44784933	theta[292]	-2.08539961	-0.8748367
theta[270]	0.089417364	0.41505533	theta[293]	-0.45627824	-0.291413
theta[271]	0.776506475	0.327564	theta[294]	0.775063335	0.30908093
theta[272]	-0.59143588	-0.2564441	theta[295]	-0.04829033	0.14702054
theta[273]	-1.25082185	-0.74163	theta[296]	-0.56859381	-0.2935203
theta[274]	-0.64129619	-0.3676003	theta[297]	-0.19176838	-0.0368231
theta[275]	1.970290629	1.32203667	theta[298]	-1.02573202	-0.3671481
theta[276]	-0.80705184	-0.537879	theta[299]	-1.01691492	-0.6346648
theta[277]	-0.34978997	-0.0744933	theta[300]	0.047270238	-0.1179327
theta[278]	0.46134703	-0.0081847	xi[1]	0.68888804	0.69120667
theta[279]	0.399896098	0.329889	xi[2]	0.02754765	0.093547
theta[280]	-2.28701418	-1.07832	xi[3]	0.58299539	0.61646
theta[281]	2.103713432	1.64614333	xi[4]	1.76943179	1.8058
theta[282]	1.011745254	0.92701	xi[5]	1.24904867	1.26676667
theta[283]	-0.07207063	0.00255	xi[6]	0.20424767	0.21256
theta[284]	-0.02513769	0.04251073	xi[7]	0.36136674	0.39408
theta[285]	-0.60054067	-0.4379353	xi[8]	0.80552697	0.83449667
theta[286]	0.503069397	0.16321133	xi[9]	1.07563869	1.11444667
theta[287]	2.026864159	1.21259	xi[10]	0.41448402	0.44820333

**Lampiran 15. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=300; m=20)**

NODE	BANGKITAN	RERATA ESTIMASI
a[1]	1.367938	1.38593
a[2]	0.950575	0.928467
a[3]	1.054002	1.09467
a[4]	0.436979	0.43568
a[5]	0.630694	0.610373
a[6]	1.777428	1.657967
a[7]	0.993635	1.054353
a[8]	1.018148	1.076443
a[9]	0.43711	0.468113
a[10]	1.693422	1.723767
a[11]	0.44044	0.459193
a[12]	1.052516	1.03323
a[13]	0.624912	0.674097
a[14]	0.714706	0.744737
a[15]	0.632627	0.63443
a[16]	0.635986	0.77241
a[17]	0.925878	1.04913
a[18]	1.112853	1.21437
a[19]	0.558225	0.661967
a[20]	1.03801	1.267617
b[1]	-2	-2.0561
b[2]	-1.8	-1.84517
b[3]	-1.6	-1.63953
b[4]	-1.4	-1.44047
b[5]	-1.2	-1.1651
b[6]	-1	-0.97813
b[7]	-0.8	-0.84942
b[8]	-0.6	-0.66514
b[9]	-0.4	-0.47847
b[10]	-0.2	-0.24781
b[11]	0.2	0.239109
b[12]	0.4	0.37538
b[13]	0.6	0.513499
b[14]	0.8	0.753813
b[15]	1	1.009787
b[16]	1.2	0.96232
b[17]	1.4	1.249853

NODE	BANGKITAN	RERATA ESTIMASI
b[18]	1.6	1.4857
b[19]	1.8	1.47165
b[20]	2	1.72057
tau[1]	1.401392	1.166303
tau[2]	0.068695	0.27608
tau[3]	0.864529	0.90563
tau[4]	0.353117	0.347257
tau[5]	1.27306	1.31738
tau[6]	1.695915	1.647333
tau[7]	1.928085	1.9015
tau[8]	0.860253	0.83561
tau[9]	0.04885	0.208477
tau[10]	0.807825	0.761567
tau[11]	0.763142	0.686533
tau[12]	0.373863	0.442567
tau[13]	0.436202	0.419103
tau[14]	0.440945	0.480863
tau[15]	1.180034	1.181803
tau[16]	0.573314	0.475033
tau[17]	0.991873	0.88093
tau[18]	1.1345	1.049657
tau[19]	0.517611	0.60672
tau[20]	0.835094	0.90074
tau[21]	0.343689	0.316907
tau[22]	0.193398	0.29714
tau[23]	0.353646	0.43974
tau[24]	0.117273	0.226394
tau[25]	0.513887	0.56938
tau[26]	1.397898	1.359417
tau[27]	0.131312	0.23357
tau[28]	2.176343	2.0724
tau[29]	0.549279	0.553783
tau[30]	1.215568	1.089877
tau[31]	0.058151	0.264233
tau[32]	1.129281	1.06873
tau[33]	0.071575	0.268623
tau[34]	0.929376	0.899013

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[35]	0.513863	0.49129
tau[36]	1.413528	1.443033
tau[37]	0.607132	0.678387
tau[38]	2.280988	2.181167
tau[39]	0.186997	0.24589
tau[40]	0.313096	0.404227
tau[41]	0.603505	0.594443
tau[42]	0.65504	0.677313
tau[43]	0.336314	0.43838
tau[44]	0.141788	0.245146
tau[45]	0.956103	0.842367
tau[46]	0.08655	0.226401
tau[47]	0.026531	0.24159
tau[48]	0.468351	0.510663
tau[49]	0.026662	0.204853
tau[50]	0.868162	0.81201
tau[51]	0.786189	0.7997
tau[52]	1.064725	1.023713
tau[53]	0.056816	0.27724
tau[54]	0.910558	0.875537
tau[55]	0.497226	0.578247
tau[56]	0.793552	0.7485
tau[57]	0.764341	0.7273
tau[58]	0.240554	0.287537
tau[59]	2.089155	2.046567
tau[60]	1.305364	1.264817
tau[61]	1.121322	1.119697
tau[62]	0.868865	0.857713
tau[63]	1.320613	1.274273
tau[64]	0.553867	0.574163
tau[65]	0.203387	0.288642
tau[66]	0.032282	0.22807
tau[67]	0.690674	0.717863
tau[68]	1.054942	1.059337
tau[69]	1.531639	1.44806
tau[70]	0.323859	0.385303
tau[71]	0.492515	0.53412
tau[72]	0.589738	0.608723
tau[73]	0.646362	0.65195

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[74]	0.067235	0.258711
tau[75]	1.054993	1.04068
tau[76]	0.487876	0.572747
tau[77]	0.003096	0.170787
tau[78]	0.567039	0.532473
tau[79]	0.483416	0.556537
tau[80]	2.099777	1.963333
tau[81]	0.672798	0.651097
tau[82]	1.34138	1.340637
tau[83]	0.323958	0.33858
tau[84]	1.193732	1.124443
tau[85]	0.102537	0.206242
tau[86]	1.649829	1.578367
tau[87]	0.612473	0.548283
tau[88]	1.05223	1.0282
tau[89]	0.240728	0.348257
tau[90]	0.321612	0.333517
tau[91]	0.392066	0.425613
tau[92]	0.540677	0.532113
tau[93]	1.169267	1.189227
tau[94]	0.594367	0.607663
tau[95]	0.452454	0.503
tau[96]	0.384529	0.432
tau[97]	0.386052	0.348203
tau[98]	0.05614	0.279767
tau[99]	1.095185	1.07206
tau[100]	1.17676	1.083243
.....	.....	.....
tau[201]	0.30349	0.325403
tau[202]	0.896729	0.90357
tau[203]	0.791064	0.66565
tau[204]	1.327615	1.310843
tau[205]	1.291064	1.20622
tau[206]	1.038984	0.994313
tau[207]	1.013732	0.95498
tau[208]	0.996004	0.992517
tau[209]	0.254187	0.38042
tau[210]	0.059039	0.223855
tau[211]	1.025748	1.13254

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[212]	0.701311	0.601643
tau[213]	1.515556	1.473867
tau[214]	1.198607	1.195537
tau[215]	0.95046	0.948727
tau[216]	1.028861	0.973817
tau[217]	0.319581	0.42529
tau[218]	1.123207	1.200213
tau[219]	0.026517	0.24513
tau[220]	1.178562	1.096733
tau[221]	0.435717	0.491787
tau[222]	0.464166	0.46915
tau[223]	1.486141	1.47058
tau[224]	0.155112	0.280772
tau[225]	0.552612	0.546827
tau[226]	0.361757	0.461313
tau[227]	1.283438	1.253243
tau[228]	0.668838	0.65741
tau[229]	0.22206	0.356597
tau[230]	0.946954	0.87937
tau[231]	1.319555	1.288437
tau[232]	0.018329	0.219386
tau[233]	0.60127	0.677877
tau[234]	0.009578	0.213027
tau[235]	0.011946	0.224797
tau[236]	1.288594	1.28641
tau[237]	0.433335	0.457087
tau[238]	0.423569	0.502213
tau[239]	1.084225	1.091653
tau[240]	0.454934	0.452827
tau[241]	0.083152	0.23714
tau[242]	0.049741	0.226373
tau[243]	1.152016	1.166027
tau[244]	0.695462	0.67538
tau[245]	0.32457	0.3995
tau[246]	0.681692	0.71827
tau[247]	0.252804	0.353503
tau[248]	0.387442	0.43291
tau[249]	2.022198	1.850633
tau[250]	0.949675	0.894557

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[251]	0.184749	0.269218
tau[252]	0.68033	0.629617
tau[253]	0.081691	0.215697
tau[254]	0.752123	0.7579
tau[255]	0.530041	0.49549
tau[256]	1.136658	1.15407
tau[257]	0.310002	0.36407
tau[258]	2.414602	2.297133
tau[259]	0.385782	0.417923
tau[260]	1.241072	1.243867
tau[261]	0.600848	0.58735
tau[262]	0.032316	0.257298
tau[263]	0.349373	0.422447
tau[264]	0.181415	0.272237
tau[265]	1.834483	1.785067
tau[266]	1.94391	1.8195
tau[267]	0.041014	0.204655
tau[268]	0.061736	0.232177
tau[269]	0.464564	0.37025
tau[270]	0.055172	0.197668
tau[271]	0.342323	0.34863
tau[272]	0.542551	0.629893
tau[273]	0.155152	0.24375
tau[274]	1.14039	1.052547
tau[275]	2.264146	2.132967
tau[276]	1.682164	1.6261
tau[277]	0.089097	0.201186
tau[278]	0.298607	0.36428
tau[279]	0.890878	0.80922
tau[280]	0.269548	0.315616
tau[281]	0.305632	0.405983
tau[282]	0.630937	0.719313
tau[283]	1.332036	1.290727
tau[284]	2.098126	1.9448
tau[285]	0.596389	0.5745
tau[286]	0.41676	0.48878
tau[287]	0.798913	0.750487
tau[288]	0.368288	0.42178
tau[289]	0.398149	0.382287

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[290]	0.55106	0.486063	theta[29]	0.720851	0.473348
tau[291]	1.415131	1.30175	theta[30]	1.998053	1.435097
tau[292]	2.409461	2.358833	theta[31]	-1.67586	-1.13099
tau[293]	1.004114	1.019527	theta[32]	0.43895	0.114486
tau[294]	2.499324	2.371433	theta[33]	-2.65914	-1.69542
tau[295]	1.080437	1.075243	theta[34]	0.001098	-0.3002
tau[296]	1.166919	1.177427	theta[35]	0.940072	0.725348
tau[297]	0.496062	0.481177	theta[36]	-0.52522	-0.44221
tau[298]	0.412005	0.354913	theta[37]	-2.33651	-1.23488
tau[299]	0.687594	0.719067	theta[38]	-0.70926	-0.20429
tau[300]	0.70263	0.64845	theta[39]	1.724564	1.402767
theta[1]	0.873913	0.247198	theta[40]	0.241966	0.281058
theta[2]	-1.31411	-1.11433	theta[41]	0.092513	-0.09634
theta[3]	-0.29258	-0.37314	theta[42]	-0.07539	-0.17246
theta[4]	0.852853	0.750163	theta[43]	-0.34818	-0.25168
theta[5]	-0.43617	-0.42991	theta[44]	0.400146	0.265294
theta[6]	-0.22554	-0.26349	theta[45]	1.227833	0.780644
theta[7]	-0.98461	-0.28119	theta[46]	1.367718	1.12348
theta[8]	0.395441	0.134305	theta[47]	-1.75617	-1.33859
theta[9]	0.588011	0.60172	theta[48]	-1.32037	-1.04344
theta[10]	1.067249	0.791906	theta[49]	-1.56553	-1.14638
theta[11]	0.631036	0.280018	theta[50]	-0.11878	-0.29727
theta[12]	0.055579	0.040537	theta[51]	-1.72663	-1.15474
theta[13]	0.503562	0.434623	theta[52]	-1.07714	-0.85415
theta[14]	0.068641	-0.06829	theta[53]	-1.2821	-0.89766
theta[15]	-0.69589	-0.58591	theta[54]	-0.28701	-0.33526
theta[16]	2.153457	1.757967	theta[55]	-0.92115	-0.92407
theta[17]	1.880043	1.51172	theta[56]	-0.67298	-0.71979
theta[18]	1.106176	0.678764	theta[57]	0.66092	0.479589
theta[19]	-0.38386	-0.48057	theta[58]	1.11737	0.901953
theta[20]	-1.01502	-0.74722	theta[59]	0.669432	0.031204
theta[21]	1.970509	1.553367	theta[60]	-0.14738	-0.24962
theta[22]	1.070286	1.008553	theta[61]	-0.96878	-0.78441
theta[23]	0.987299	0.88983	theta[62]	-0.53177	-0.51339
theta[24]	0.75341	0.662621	theta[63]	1.434548	0.887367
theta[25]	0.625414	0.340426	theta[64]	0.595433	0.516114
theta[26]	-0.13051	-0.27131	theta[65]	1.186029	0.946477
theta[27]	0.650224	0.681007	theta[66]	0.464642	0.576513
theta[28]	0.184981	-0.12113	theta[67]	-0.09632	-0.18226

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[68]	0.705336	0.324673
theta[69]	0.271251	-0.07066
theta[70]	-1.23102	-1.04288
theta[71]	-0.13172	-0.1748
theta[72]	2.118757	1.659543
theta[73]	-1.13804	-1.01806
theta[74]	-0.73251	-0.50273
theta[75]	-0.54476	-0.58576
theta[76]	-2.22832	-1.42535
theta[77]	1.610891	1.4552
theta[78]	0.96291	0.793903
theta[79]	-0.42691	-0.45452
theta[80]	-0.38478	-0.2756
theta[81]	-0.13789	-0.30815
theta[82]	-0.08154	-0.20436
theta[83]	0.366819	0.229518
theta[84]	0.861888	0.323313
theta[85]	0.535615	0.479844
theta[86]	-1.34159	-0.53903
theta[87]	-0.25718	-0.42168
theta[88]	0.055108	-0.17293
theta[89]	-0.55856	-0.40688
theta[90]	0.47256	0.415634
theta[91]	0.863688	0.768548
theta[92]	0.293104	0.022405
theta[93]	-2.62894	-0.92919
theta[94]	0.468171	0.240705
theta[95]	-0.2501	-0.27284
theta[96]	-0.5645	-0.51958
theta[97]	2.250161	1.778933
theta[98]	-0.35398	-0.17987
theta[99]	0.428756	0.113152
theta[100]	1.060046	0.587126
.....	.....	.....
theta[201]	0.908666	0.754747
theta[202]	-1.23237	-0.81121
theta[203]	1.629783	1.25203
theta[204]	0.679411	0.189906
theta[205]	1.361494	0.866011

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[206]	0.861175	0.51268
theta[207]	0.460647	0.116083
theta[208]	-0.43561	-0.45056
theta[209]	-0.25868	-0.12846
theta[210]	0.043627	0.173818
theta[211]	-1.39892	-0.8873
theta[212]	1.445649	1.05529
theta[213]	0.346224	-0.26689
theta[214]	-0.02579	-0.25432
theta[215]	-0.96594	-0.71982
theta[216]	-0.28331	-0.32353
theta[217]	-0.3024	-0.252
theta[218]	-0.84288	-0.68256
theta[219]	-1.29589	-1.17013
theta[220]	1.814997	1.334253
theta[221]	-1.53606	-1.19808
theta[222]	-1.09172	-0.96402
theta[223]	-0.05011	-0.33203
theta[224]	-0.87011	-0.80534
theta[225]	-1.02833	-0.89089
theta[226]	-1.34014	-0.9866
theta[227]	0.406349	0.27147
theta[228]	-1.81311	-1.24039
theta[229]	0.19157	0.139847
theta[230]	1.335328	0.940424
theta[231]	-0.42426	-0.59944
theta[232]	0.079383	0.180961
theta[233]	-1.04407	-0.79351
theta[234]	-0.484	-0.26693
theta[235]	-1.22709	-1.03916
theta[236]	-0.94009	-0.68117
theta[237]	-0.37578	-0.38486
theta[238]	-0.998	-0.74409
theta[239]	-1.74411	-0.90141
theta[240]	-0.30595	-0.33164
theta[241]	-1.32806	-0.94153
theta[242]	0.006411	0.082033
theta[243]	0.694594	0.352476
theta[244]	-0.33127	-0.57211

NODE	BANGKITAN	RERATA ESTIMASI
theta[245]	-0.729	-0.66723
theta[246]	-1.07226	-0.84176
theta[247]	-0.64149	-0.62981
theta[248]	-0.342	-0.30249
theta[249]	2.031111	0.759884
theta[250]	0.136059	-0.10805
theta[251]	0.628568	0.533884
theta[252]	0.956313	0.760692
theta[253]	0.95821	0.95169
theta[254]	-0.23859	-0.4576
theta[255]	0.547053	0.275035
theta[256]	0.035232	-0.09118
theta[257]	0.161049	0.163518
theta[258]	1.619874	0.437791
theta[259]	1.127755	0.84833
theta[260]	-1.22794	-0.63191
theta[261]	-0.07565	-0.16874
theta[262]	-1.84283	-1.31358
theta[263]	-0.7837	-0.66822
theta[264]	-0.62383	-0.47614
theta[265]	-0.90662	-0.40515
theta[266]	0.169614	-0.23979
theta[267]	0.891827	0.828821
theta[268]	-0.4128	-0.20781
theta[269]	2.004212	1.52816
theta[270]	1.469027	1.30644
theta[271]	1.614751	1.315947
theta[272]	0.080772	-0.02478
theta[273]	0.686091	0.691612
theta[274]	1.160156	0.738197
theta[275]	1.45925	0.324665
theta[276]	0.844749	0.187322
theta[277]	1.398916	1.151713
theta[278]	-0.63899	-0.69381
theta[279]	0.159216	0.079291
theta[280]	0.306613	0.270669
theta[281]	-0.35873	-0.20773
theta[282]	-0.47563	-0.5392
theta[283]	-1.55132	-0.66299

NODE	BANGKITAN	RERATA ESTIMASI
theta[284]	0.563308	-0.09728
theta[285]	-0.33387	-0.33546
theta[286]	0.669313	0.468701
theta[287]	-0.01687	-0.32486
theta[288]	1.876112	1.472407
theta[289]	0.999607	0.768261
theta[290]	1.536432	1.160873
theta[291]	0.818097	0.267459
theta[292]	0.621559	-0.0394
theta[293]	-1.26214	-0.82312
theta[294]	1.060556	0.126308
theta[295]	-1.23208	-0.78753
theta[296]	-0.77331	-0.58921
theta[297]	0.076349	0.087671
theta[298]	1.117185	0.852583
theta[299]	0.124266	-0.00176
theta[300]	0.300039	0.132371
xi[1]	0.136575	0.144973
xi[2]	0.756087	0.786883
xi[3]	1.197961	1.2255
xi[4]	1.241069	1.253733
xi[5]	0.046874	0.079197
xi[6]	0.103044	0.129272
xi[7]	0.524574	0.533977
xi[8]	0.201068	0.216893
xi[9]	0.578603	0.607747
xi[10]	1.816635	1.849033
xi[11]	0.409571	0.416543
xi[12]	0.192493	0.228276
xi[13]	0.350134	0.3659
xi[14]	0.22669	0.260187
xi[15]	0.685056	0.701383
xi[16]	0.107608	0.123288
xi[17]	0.705362	0.739513
xi[18]	1.313236	1.340833
xi[19]	1.673432	1.693467
xi[20]	0.884697	0.91077

**Lampiran 16. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=300; m=40)**

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
a[1]	1.420813	1.470403	a[38]	0.641878	0.81712
a[2]	0.814819	0.86069	a[39]	0.620973	0.727537
a[3]	1.140889	1.126173	a[40]	0.644864	0.846687
a[4]	1.097697	1.077947	b[1]	-2	-2.04447
a[5]	0.742975	0.726703	b[2]	-1.9	-1.86887
a[6]	0.769511	0.780673	b[3]	-1.8	-1.87327
a[7]	0.533025	0.526087	b[4]	-1.7	-1.763
a[8]	0.477875	0.493357	b[5]	-1.6	-1.59267
a[9]	1.059029	1.064143	b[6]	-1.5	-1.53227
a[10]	1.44654	1.3749	b[7]	-1.4	-1.45103
a[11]	1.878304	1.7136	b[8]	-1.3	-1.32139
a[12]	0.747986	0.700473	b[9]	-1.2	-1.24757
a[13]	0.429544	0.397587	b[10]	-1.1	-1.09973
a[14]	0.72049	0.751943	b[11]	-1	-1.05595
a[15]	1.630203	1.454633	b[12]	-0.9	-0.8857
a[16]	1.420215	1.482033	b[13]	-0.8	-0.60515
a[17]	0.461385	0.445377	b[14]	-0.7	-0.72911
a[18]	0.509605	0.49194	b[15]	-0.6	-0.64081
a[19]	0.617575	0.653403	b[16]	-0.5	-0.49991
a[20]	0.611963	0.591103	b[17]	-0.4	-0.31195
a[21]	0.593442	0.591717	b[18]	-0.3	-0.294
a[22]	0.478612	0.46034	b[19]	-0.2	-0.22473
a[23]	1.168548	1.16209	b[20]	-0.1	-0.03455
a[24]	0.44562	0.4779	b[21]	0.1	0.069176
a[25]	1.313823	1.38703	b[22]	0.2	0.274571
a[26]	1.270896	1.286493	b[23]	0.3	0.32682
a[27]	0.411226	0.453443	b[24]	0.4	0.409177
a[28]	0.645577	0.66435	b[25]	0.5	0.466877
a[29]	0.874638	0.869067	b[26]	0.6	0.574867
a[30]	0.609944	0.679263	b[27]	0.7	0.512239
a[31]	1.442441	1.475533	b[28]	0.8	0.760363
a[32]	1.651907	1.757267	b[29]	0.9	0.98395
a[33]	1.006573	1.096637	b[30]	1	0.89918
a[34]	1.187404	1.269943	b[31]	1.1	1.09082
a[35]	1.168198	1.289367	b[32]	1.2	1.15456
a[36]	0.775669	0.96805	b[33]	1.3	1.25986
a[37]	0.961883	1.19307	b[34]	1.4	1.369273

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
b[35]	1.5	1.368107
b[36]	1.6	1.315923
b[37]	1.7	1.488233
b[38]	1.8	1.300593
b[39]	1.9	1.55202
b[40]	2	1.502567
tau[1]	0.723959	0.70826
tau[2]	0.038085	0.16546
tau[3]	0.228723	0.275497
tau[4]	0.361621	0.40708
tau[5]	0.830943	0.808757
tau[6]	1.670527	1.643067
tau[7]	0.730827	0.735767
tau[8]	0.369156	0.36519
tau[9]	0.533525	0.49673
tau[10]	0.619568	0.66847
tau[11]	0.043946	0.173281
tau[12]	0.704617	0.707067
tau[13]	0.457415	0.48117
tau[14]	0.608355	0.62463
tau[15]	0.200082	0.25612
tau[16]	1.691916	1.6316
tau[17]	1.560943	1.561633
tau[18]	0.277613	0.351153
tau[19]	0.910649	0.862703
tau[20]	0.954397	0.97616
tau[21]	0.55424	0.53421
tau[22]	1.431313	1.482013
tau[23]	1.251036	1.243927
tau[24]	0.605413	0.601223
tau[25]	0.211426	0.218285
tau[26]	0.198797	0.216498
tau[27]	0.512099	0.5435
tau[28]	0.263954	0.32536
tau[29]	1.176915	1.168433
tau[30]	0.403968	0.422187
tau[31]	0.857396	0.852773
tau[32]	1.320523	1.3215
tau[33]	1.672208	1.666233

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[34]	0.861605	0.912693
tau[35]	0.013176	0.159242
tau[36]	1.876594	1.911167
tau[37]	0.611914	0.562973
tau[38]	0.327845	0.32978
tau[39]	0.480187	0.487747
tau[40]	0.486665	0.47758
tau[41]	0.104633	0.197287
tau[42]	0.999578	0.981097
tau[43]	0.217126	0.222197
tau[44]	0.2477	0.265811
tau[45]	0.146355	0.251837
tau[46]	0.956553	0.97295
tau[47]	1.46334	1.4585
tau[48]	1.01845	1.074503
tau[49]	0.573068	0.60075
tau[50]	0.413547	0.40614
tau[51]	0.29083	0.30667
tau[52]	0.112317	0.19108
tau[53]	0.249749	0.305883
tau[54]	0.511091	0.4816
tau[55]	0.247141	0.34413
tau[56]	0.619156	0.64851
tau[57]	0.482506	0.470557
tau[58]	0.274662	0.312453
tau[59]	0.353709	0.346303
tau[60]	0.041701	0.178746
tau[61]	0.230903	0.314397
tau[62]	1.176003	1.168297
tau[63]	0.167755	0.241717
tau[64]	1.063509	1.11043
tau[65]	0.574436	0.59184
tau[66]	0.02677	0.136122
tau[67]	1.266164	1.237453
tau[68]	0.285835	0.307937
tau[69]	0.923345	0.966883
tau[70]	0.406358	0.404587
tau[71]	2.187724	2.1718
tau[72]	0.184388	0.317175

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[73]	0.472107	0.496753
tau[74]	0.385469	0.439167
tau[75]	0.501573	0.513167
tau[76]	1.655696	1.6356
tau[77]	0.270918	0.33294
tau[78]	1.069475	1.028517
tau[79]	0.028336	0.127601
tau[80]	0.725246	0.72029
tau[81]	1.381869	1.407
tau[82]	0.999722	0.979707
tau[83]	1.764913	1.763933
tau[84]	0.07113	0.194372
tau[85]	0.66103	0.68475
tau[86]	1.517069	1.529867
tau[87]	0.601265	0.634273
tau[88]	0.384946	0.40249
tau[89]	2.075748	2.046067
tau[90]	0.22954	0.30975
tau[91]	0.624245	0.61024
tau[92]	1.626634	1.5348
tau[93]	1.049892	1.04496
tau[94]	1.560614	1.560333
tau[95]	1.341094	1.3437
tau[96]	1.259664	1.21537
tau[97]	0.91469	0.936977
tau[98]	0.275938	0.2972
tau[99]	0.982813	0.992987
tau[100]	1.438161	1.439233
.....	.....	.....
tau[201]	0.143393	0.23134
tau[202]	0.22672	0.30082
tau[203]	1.388166	1.4249
tau[204]	0.565772	0.623723
tau[205]	0.806209	0.821097
tau[206]	0.143643	0.221311
tau[207]	0.645508	0.657987
tau[208]	2.411018	2.324967
tau[209]	0.860899	0.862687
tau[210]	1.383347	1.396433

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[211]	1.081053	1.07549
tau[212]	1.097988	1.044063
tau[213]	0.108191	0.154711
tau[214]	1.867263	1.799833
tau[215]	0.095157	0.166025
tau[216]	1.526646	1.4742
tau[217]	1.001639	1.02251
tau[218]	0.568464	0.546347
tau[219]	0.220534	0.263727
tau[220]	0.256789	0.29874
tau[221]	1.413301	1.3903
tau[222]	0.127134	0.16365
tau[223]	1.25838	1.225713
tau[224]	0.494523	0.447743
tau[225]	1.107848	1.158687
tau[226]	1.987068	1.9922
tau[227]	0.776026	0.837067
tau[228]	1.054515	1.08796
tau[229]	2.201704	2.190033
tau[230]	0.815733	0.85233
tau[231]	0.686925	0.656933
tau[232]	0.920861	0.941533
tau[233]	0.997927	0.953283
tau[234]	1.149427	1.202483
tau[235]	1.332565	1.352767
tau[236]	1.377853	1.292933
tau[237]	0.968651	0.90761
tau[238]	0.135349	0.225634
tau[239]	0.700256	0.728267
tau[240]	0.504189	0.508637
tau[241]	0.985507	1.063717
tau[242]	1.14296	1.16026
tau[243]	1.0666	1.026873
tau[244]	0.008587	0.133527
tau[245]	1.09794	1.01347
tau[246]	0.620759	0.627587
tau[247]	0.447019	0.467257
tau[248]	1.019476	1.045197
tau[249]	0.713	0.814453

NODE	BANGKITAN	RERATA ESTIMASI
tau[250]	0.930333	0.90663
tau[251]	0.39715	0.39382
tau[252]	0.032916	0.152214
tau[253]	0.735164	0.7672
tau[254]	0.66199	0.7064
tau[255]	0.237712	0.328517
tau[256]	0.180056	0.252905
tau[257]	1.561068	1.5323
tau[258]	0.461163	0.50777
tau[259]	0.347657	0.376907
tau[260]	0.096351	0.216954
tau[261]	1.247944	1.19612
tau[262]	0.596457	0.608607
tau[263]	0.264143	0.228029
tau[264]	0.304573	0.362689
tau[265]	0.600843	0.68127
tau[266]	0.682788	0.666557
tau[267]	0.182625	0.235333
tau[268]	2.885347	2.8216
tau[269]	0.429023	0.434697
tau[270]	0.262289	0.24829
tau[271]	0.364348	0.426227
tau[272]	0.113137	0.220828
tau[273]	0.055218	0.191072
tau[274]	0.601535	0.630853
tau[275]	0.603288	0.613663
tau[276]	0.027918	0.151179
tau[277]	0.111634	0.223303
tau[278]	0.087365	0.187456
tau[279]	1.650127	1.667167
tau[280]	0.590854	0.577507
tau[281]	0.627979	0.673193
tau[282]	1.04858	1.093807
tau[283]	1.630444	1.6733
tau[284]	0.772748	0.874727
tau[285]	0.762485	0.81901
tau[286]	0.138259	0.199337
tau[287]	0.18026	0.227557
tau[288]	0.237396	0.256598

NODE	BANGKITAN	RERATA ESTIMASI
tau[289]	0.750322	0.744743
tau[290]	1.638506	1.5881
tau[291]	0.425244	0.430167
tau[292]	0.092981	0.182958
tau[293]	0.47854	0.42899
tau[294]	0.832163	0.878417
tau[295]	0.25352	0.285498
tau[296]	1.039536	1.05429
tau[297]	1.555173	1.522
tau[298]	0.666535	0.646853
tau[299]	1.581304	1.529733
tau[300]	0.818198	0.80991
theta[1]	0.474505	0.338029
theta[2]	-0.55118	-0.32298
theta[3]	0.599644	0.54492
theta[4]	-0.04897	0.001459
theta[5]	0.767409	0.68716
theta[6]	-0.69068	-0.67467
theta[7]	0.04607	-0.06982
theta[8]	0.235157	0.006562
theta[9]	0.981708	0.652775
theta[10]	0.505787	0.41494
theta[11]	0.761729	0.756113
theta[12]	-0.72	-0.80185
theta[13]	0.656397	0.577869
theta[14]	-0.91499	-0.98376
theta[15]	0.282946	0.267916
theta[16]	1.253207	0.799289
theta[17]	0.642249	0.283583
theta[18]	-1.21237	-1.12205
theta[19]	1.246677	1.051897
theta[20]	-0.50874	-0.46307
theta[21]	-0.0233	-0.13699
theta[22]	-1.4767	-0.84134
theta[23]	-1.98931	-1.16716
theta[24]	-0.75784	-0.87093
theta[25]	-0.44729	-0.56185
theta[26]	0.503119	0.577565
theta[27]	0.146979	0.06647

NODE	BANGKITAN	RERATA ESTIMASI
theta[28]	-2.16632	-1.87417
theta[29]	-1.42073	-1.099
theta[30]	-0.22509	-0.327
theta[31]	0.620703	0.575687
theta[32]	-0.1955	-0.36413
theta[33]	0.628017	0.627035
theta[34]	-1.18325	-1.00805
theta[35]	-1.6073	-1.33698
theta[36]	0.636128	0.286588
theta[37]	0.530571	0.369673
theta[38]	0.557311	0.42502
theta[39]	1.140603	0.773813
theta[40]	0.119522	0.058078
theta[41]	0.422475	0.479345
theta[42]	0.412787	0.13412
theta[43]	-0.28704	-0.32719
theta[44]	-0.22456	-0.34568
theta[45]	-0.99129	-0.86866
theta[46]	0.221025	0.205965
theta[47]	0.377894	-0.0065
theta[48]	-2.0386	-1.42539
theta[49]	-0.039	-0.06648
theta[50]	0.308345	0.427051
theta[51]	1.659884	1.491233
theta[52]	1.135368	1.045223
theta[53]	0.590282	0.543653
theta[54]	0.90339	0.644487
theta[55]	-1.8601	-1.53747
theta[56]	0.712521	0.537927
theta[57]	0.58075	0.530178
theta[58]	0.586964	0.484331
theta[59]	-0.29293	-0.34688
theta[60]	-0.09022	-0.07848
theta[61]	-0.88075	-0.83899
theta[62]	0.474199	0.161831
theta[63]	-1.19324	-1.05382
theta[64]	-0.97211	-0.87588
theta[65]	0.528716	0.479101
theta[66]	0.062419	0.171252

NODE	BANGKITAN	RERATA ESTIMASI
theta[67]	0.512492	0.199344
theta[68]	0.164942	0.112368
theta[69]	1.24052	1.004277
theta[70]	-0.0058	-0.16465
theta[71]	-1.60929	-0.44338
theta[72]	-2.29327	-1.78713
theta[73]	0.63575	0.60858
theta[74]	0.315739	0.292182
theta[75]	0.376791	0.339954
theta[76]	0.28827	-0.11461
theta[77]	-1.77064	-1.41749
theta[78]	1.850629	1.5286
theta[79]	0.713001	0.691533
theta[80]	0.473563	0.399763
theta[81]	-2.86365	-1.16383
theta[82]	0.821096	0.653507
theta[83]	0.557516	0.047281
theta[84]	-0.7731	-0.57272
theta[85]	0.751471	0.699973
theta[86]	0.936601	0.645062
theta[87]	-0.10566	-0.09112
theta[88]	0.713323	0.605383
theta[89]	-0.09184	-0.27352
theta[90]	-1.15993	-1.04767
theta[91]	0.751433	0.62643
theta[92]	1.447951	0.98195
theta[93]	0.62731	0.505143
theta[94]	1.174322	0.859637
theta[95]	0.751097	0.517199
theta[96]	-0.56359	-0.6189
theta[97]	-0.06735	-0.31956
theta[98]	0.039316	0.038031
theta[99]	0.169678	-0.06999
theta[100]	-1.9302	-1.05307
.....	.....	.....
theta[201]	-0.14055	-0.1045
theta[202]	-0.11786	-0.10261
theta[203]	-0.12329	-0.15174
theta[204]	-0.82684	-0.88723

NODE	BANGKITAN	RERATA ESTIMASI
theta[205]	-1.03372	-0.92134
theta[206]	1.025654	0.95697
theta[207]	-2.08365	-1.64066
theta[208]	0.333627	-0.07457
theta[209]	-0.64668	-0.5883
theta[210]	-0.28686	-0.1956
theta[211]	0.211097	-0.10154
theta[212]	0.682517	0.397813
theta[213]	2.390429	2.1346
theta[214]	0.279568	-0.1549
theta[215]	1.089397	1.002077
theta[216]	1.633143	1.172457
theta[217]	-1.45588	-1.26373
theta[218]	0.479812	0.355663
theta[219]	-0.32481	-0.32034
theta[220]	0.590964	0.514323
theta[221]	-0.33115	-0.38719
theta[222]	0.61492	0.51303
theta[223]	-1.79019	-1.0137
theta[224]	0.964183	0.863007
theta[225]	0.737141	0.648758
theta[226]	-0.02533	-0.29934
theta[227]	-0.29572	-0.28676
theta[228]	-1.1888	-0.97689
theta[229]	0.249037	-0.30287
theta[230]	0.609707	0.437342
theta[231]	0.846625	0.632753
theta[232]	0.697484	0.682673
theta[233]	0.939178	0.68417
theta[234]	0.867095	0.679839
theta[235]	-1.24843	-0.96344
theta[236]	1.415012	1.003203
theta[237]	0.987245	0.74355
theta[238]	-0.12837	-0.09829
theta[239]	-0.64034	-0.79363
theta[240]	1.221809	1.081053
theta[241]	-1.12851	-1.03065
theta[242]	-0.18674	-0.24872
theta[243]	-0.70653	-0.64659

NODE	BANGKITAN	RERATA ESTIMASI
theta[244]	1.844952	1.7905
theta[245]	2.164785	1.923867
theta[246]	-0.98715	-0.87277
theta[247]	-0.0025	-0.09523
theta[248]	0.069956	0.045116
theta[249]	-1.63425	-1.39742
theta[250]	1.053908	0.843171
theta[251]	1.090046	0.848817
theta[252]	-2.38092	-1.89493
theta[253]	2.391878	2.142033
theta[254]	0.761174	0.545719
theta[255]	-1.2856	-1.14714
theta[256]	-0.17981	-0.16885
theta[257]	2.500039	2.0756
theta[258]	0.245696	0.208618
theta[259]	0.674634	0.670653
theta[260]	-1.24294	-1.21725
theta[261]	0.274091	-0.13106
theta[262]	0.481984	0.477753
theta[263]	1.813289	1.5495
theta[264]	-0.97216	-1.12568
theta[265]	-0.60205	-0.59358
theta[266]	-0.38811	-0.41843
theta[267]	0.22486	0.333855
theta[268]	0.278158	-0.07771
theta[269]	0.216962	0.167458
theta[270]	0.303894	0.185246
theta[271]	0.36114	0.366668
theta[272]	0.867518	0.970913
theta[273]	-0.88462	-0.74255
theta[274]	0.126254	0.122129
theta[275]	-2.26457	-1.66571
theta[276]	-0.77449	-0.66183
theta[277]	-0.29846	-0.22868
theta[278]	-0.33801	-0.40008
theta[279]	0.677568	0.432177
theta[280]	0.185379	0.066064
theta[281]	-0.66424	-0.51829
theta[282]	0.205282	0.15628

NODE	BANGKITAN	RERATA ESTIMASI
theta[283]	-0.2761	-0.42088
theta[284]	-2.24308	-1.46499
theta[285]	-1.86092	-1.36282
theta[286]	1.990489	1.846633
theta[287]	0.619917	0.52979
theta[288]	2.19449	1.9857
theta[289]	-1.23374	-1.16391
theta[290]	-0.14534	-0.43041
theta[291]	0.638824	0.512941
theta[292]	-0.81495	-0.70192
theta[293]	0.064006	0.050365
theta[294]	-0.79961	-0.70085
theta[295]	0.254388	0.140844
theta[296]	-0.38455	-0.37815
theta[297]	0.588705	0.277183
theta[298]	-0.30866	-0.45336
theta[299]	-1.18194	-0.80188
theta[300]	-0.07126	-0.23826
xi[1]	0.146382	0.161118
xi[2]	1.674795	1.698233
xi[3]	1.467943	1.489333
xi[4]	1.101273	1.130533
xi[5]	0.488679	0.498223
xi[6]	0.469265	0.47403
xi[7]	1.544713	1.553033
xi[8]	0.005174	0.073365
xi[9]	0.276319	0.299433
xi[10]	0.41038	0.440437
xi[11]	0.623411	0.63118

NODE	BANGKITAN	RERATA ESTIMASI
xi[12]	0.058635	0.101701
xi[13]	0.010999	0.065462
xi[14]	0.60655	0.628557
xi[15]	1.697735	1.7131
xi[16]	0.071854	0.091764
xi[17]	1.060575	1.074837
xi[18]	0.572866	0.59957
xi[19]	0.847496	0.874507
xi[20]	0.299369	0.333023
xi[21]	1.173227	1.177933
xi[22]	0.710617	0.743617
xi[23]	0.066377	0.093223
xi[24]	0.620521	0.639037
xi[25]	0.407624	0.433837
xi[26]	1.26033	1.275733
xi[27]	0.298022	0.29618
xi[28]	2.464407	2.472767
xi[29]	2.251791	2.2555
xi[30]	0.986818	1.017943
xi[31]	1.014953	1.02557
xi[32]	0.976486	1.00549
xi[33]	0.412032	0.438697
xi[34]	0.60931	0.632793
xi[35]	0.138609	0.174394
xi[36]	0.344801	0.37046
xi[37]	0.176215	0.194203
xi[38]	0.073653	0.111478
xi[39]	1.131537	1.1558
xi[40]	1.287061	1.3008

**Lampiran 17. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali  
Replikasi (n=600; m=10)**

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
a[1]	1.143216	1.242083	tau[18]	0.463325	0.58121
a[2]	0.656054	0.6308	tau[19]	0.290957	0.383873
a[3]	1.411578	1.441253	tau[20]	2.28599	2.118833
a[4]	0.490147	0.48439	tau[21]	1.906885	1.721833
a[5]	0.582267	0.578507	tau[22]	0.097947	0.226737
a[6]	0.482088	0.489303	tau[23]	0.863458	0.82719
a[7]	1.461318	1.44329	tau[24]	1.463136	1.383503
a[8]	0.610556	0.634503	tau[25]	0.118195	0.387207
a[9]	1.253023	1.42149	tau[26]	0.416871	0.397093
a[10]	0.48022	0.553293	tau[27]	1.251228	1.174397
b[1]	-2	-2.0588	tau[28]	0.28197	0.36396
b[2]	-1.6	-1.63743	tau[29]	0.749902	0.726597
b[3]	-1.2	-1.2246	tau[30]	1.377163	1.32323
b[4]	-0.8	-0.77263	tau[31]	0.168779	0.30939
b[5]	-0.4	-0.46074	tau[32]	1.404299	1.224193
b[6]	0.4	0.367737	tau[33]	0.313152	0.380703
b[7]	0.8	0.820927	tau[34]	0.443791	0.553807
b[8]	1.2	1.149193	tau[35]	0.068803	0.28014
b[9]	1.6	1.6118	tau[36]	1.699728	1.504267
b[10]	2	1.677367	tau[37]	0.93816	0.974247
tau[1]	0.907248	0.903783	tau[38]	0.487228	0.558217
tau[2]	1.490619	1.39918	tau[39]	0.654346	0.683263
tau[3]	0.700035	0.738427	tau[40]	0.295215	0.448273
tau[4]	0.586026	0.647737	tau[41]	0.534894	0.572457
tau[5]	0.68049	0.788023	tau[42]	0.97308	0.87545
tau[6]	0.700393	0.714127	tau[43]	0.605334	0.655513
tau[7]	0.14457	0.31816	tau[44]	0.043614	0.308363
tau[8]	0.995696	0.927007	tau[45]	1.42637	1.37798
tau[9]	0.092648	0.37	tau[46]	0.543188	0.65193
tau[10]	1.062554	0.952813	tau[47]	2.440434	2.162967
tau[11]	1.012928	0.94515	tau[48]	0.868742	0.85755
tau[12]	0.332397	0.436173	tau[49]	0.71583	0.77286
tau[13]	1.508519	1.331343	tau[50]	0.827751	0.764683
tau[14]	1.120647	1.100957	tau[51]	0.584872	0.480183
tau[15]	1.811235	1.570867	tau[52]	0.94841	0.935237
tau[16]	1.012447	1.002093	tau[53]	0.237601	0.324837
tau[17]	0.102646	0.272713	tau[54]	0.758962	0.749643

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
tau[55]	0.172464	0.351407	tau[94]	2.372276	2.2432
tau[56]	0.935823	0.855923	tau[95]	1.247438	1.046187
tau[57]	0.729041	0.688773	tau[96]	1.072198	1.066793
tau[58]	1.476364	1.417547	tau[97]	0.698445	0.575877
tau[59]	0.072473	0.3	tau[98]	0.908422	0.85581
tau[60]	1.57803	1.483733	tau[99]	0.244611	0.37137
tau[61]	0.280589	0.470447	tau[100]	0.839051	0.724067
tau[62]	0.171467	0.322693	.....	.....	.....
tau[63]	0.357853	0.43869	tau[501]	1.756345	1.550527
tau[64]	0.305519	0.40983	tau[502]	0.700961	0.689467
tau[65]	0.065174	0.257677	tau[503]	0.30491	0.392163
tau[66]	0.81868	0.86384	tau[504]	0.599263	0.589643
tau[67]	0.668442	0.557723	tau[505]	1.010317	1.03396
tau[68]	0.239118	0.389007	tau[506]	1.797255	1.6719
tau[69]	0.084853	0.322307	tau[507]	0.749684	0.780313
tau[70]	2.483926	2.234567	tau[508]	0.496255	0.479027
tau[71]	1.130609	1.153637	tau[509]	0.050658	0.32612
tau[72]	1.021184	0.968	tau[510]	0.912901	0.737843
tau[73]	0.476005	0.581637	tau[511]	0.202598	0.375293
tau[74]	0.468343	0.541923	tau[512]	0.476877	0.491307
tau[75]	1.00661	0.993553	tau[513]	1.306728	1.186207
tau[76]	0.604238	0.541017	tau[514]	0.095492	0.308147
tau[77]	0.856703	0.767257	tau[515]	0.894597	0.736787
tau[78]	0.85356	0.835453	tau[516]	0.503502	0.523567
tau[79]	0.307726	0.369747	tau[517]	0.515896	0.548463
tau[80]	0.538844	0.58678	tau[518]	0.619434	0.608293
tau[81]	1.164516	1.112693	tau[519]	0.242162	0.38071
tau[82]	0.055653	0.279635	tau[520]	0.215538	0.34238
tau[83]	1.509013	1.419417	tau[521]	0.007839	0.30811
tau[84]	0.593619	0.488383	tau[522]	2.314972	2.081367
tau[85]	0.999993	0.93665	tau[523]	0.049873	0.32263
tau[86]	0.767442	0.792993	tau[524]	0.854287	0.701783
tau[87]	0.992977	0.919673	tau[525]	0.841508	0.768303
tau[88]	0.378475	0.48164	tau[526]	1.188683	1.141303
tau[89]	0.712795	0.725927	tau[527]	1.344676	1.19613
tau[90]	1.204186	1.072417	tau[528]	0.159415	0.337137
tau[91]	1.525213	1.340407	tau[529]	1.318176	1.253327
tau[92]	1.140069	1.070903	tau[530]	2.048504	1.867133
tau[93]	1.582415	1.43447	tau[531]	0.321172	0.370793

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
tau[532]	1.672093	1.537733	tau[571]	0.324702	0.476323
tau[533]	0.066401	0.271697	tau[572]	1.056933	0.97979
tau[534]	0.562738	0.65095	tau[573]	0.09912	0.266043
tau[535]	0.457326	0.419867	tau[574]	0.993579	0.92351
tau[536]	1.649898	1.5225	tau[575]	0.06179	0.33104
tau[537]	0.926952	0.84281	tau[576]	1.887005	1.809233
tau[538]	0.469274	0.43927	tau[577]	0.528771	0.581017
tau[539]	0.258825	0.385883	tau[578]	1.037056	0.972313
tau[540]	0.052545	0.299767	tau[579]	0.331893	0.40059
tau[541]	0.110862	0.314257	tau[580]	0.290849	0.380497
tau[542]	1.432609	1.366657	tau[581]	1.792693	1.636633
tau[543]	1.637766	1.605933	tau[582]	0.173873	0.300823
tau[544]	0.773284	0.837737	tau[583]	1.920896	1.7686
tau[545]	0.908351	0.77898	tau[584]	0.635341	0.635373
tau[546]	0.145827	0.30845	tau[585]	1.487036	1.40235
tau[547]	0.750612	0.612843	tau[586]	0.228243	0.428167
tau[548]	0.280125	0.402373	tau[587]	0.653938	0.656997
tau[549]	1.492337	1.33447	tau[588]	0.117491	0.332753
tau[550]	0.679882	0.630857	tau[589]	0.407508	0.472253
tau[551]	0.080174	0.35038	tau[590]	0.281672	0.347227
tau[552]	0.030935	0.27403	tau[591]	1.36724	1.250993
tau[553]	0.410036	0.375303	tau[592]	1.002122	0.95982
tau[554]	0.254884	0.403007	tau[593]	0.103186	0.30366
tau[555]	0.158415	0.397053	tau[594]	0.069601	0.266897
tau[556]	2.034707	1.7935	tau[595]	0.704024	0.656867
tau[557]	0.592522	0.556353	tau[596]	0.787414	0.740823
tau[558]	1.23181	1.070667	tau[597]	0.535185	0.595417
tau[559]	0.123234	0.32832	tau[598]	0.103462	0.32145
tau[560]	1.124482	0.99409	tau[599]	0.758989	0.707683
tau[561]	0.637112	0.676137	tau[600]	0.863358	0.785543
tau[562]	1.575921	1.446623	theta[1]	-0.34049	-0.23812
tau[563]	0.125306	0.31199	theta[2]	-1.98638	-0.40664
tau[564]	0.158061	0.42125	theta[3]	-0.62488	-0.42932
tau[565]	0.03846	0.233938	theta[4]	-0.90877	-0.744
tau[566]	0.474844	0.458273	theta[5]	-0.6654	-0.48649
tau[567]	0.956714	0.721873	theta[6]	-0.20441	-0.26996
tau[568]	2.257071	1.926067	theta[7]	-1.28756	-0.98812
tau[569]	0.724099	0.582917	theta[8]	0.790581	0.284707
tau[570]	0.741409	0.634023	theta[9]	-0.68145	-0.38979

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
theta[10]	1.616607	0.72329	theta[49]	-0.40295	-0.29751
theta[11]	0.291037	0.071697	theta[50]	1.827284	1.006
theta[12]	-0.19986	-0.27397	theta[51]	1.209352	0.668199
theta[13]	1.435816	0.305783	theta[52]	-0.26835	-0.19536
theta[14]	-0.02313	-0.08159	theta[53]	0.591471	0.338578
theta[15]	2.183332	0.76287	theta[54]	0.462344	0.117553
theta[16]	0.506569	0.152608	theta[55]	0.201857	0.302529
theta[17]	1.546311	1.132967	theta[56]	-1.64747	-0.69928
theta[18]	-1.68431	-0.98172	theta[57]	0.636755	0.168869
theta[19]	-0.3553	-0.29683	theta[58]	0.110755	-0.2678
theta[20]	0.303729	-0.1121	theta[59]	-0.57558	-0.36989
theta[21]	1.097559	0.091753	theta[60]	0.002378	-0.24516
theta[22]	2.103992	1.522787	theta[61]	-0.71593	-0.37669
theta[23]	0.12991	-0.05824	theta[62]	-0.50305	-0.41259
theta[24]	0.586682	-0.02701	theta[63]	-0.59201	-0.41231
theta[25]	-2.93631	-1.20602	theta[64]	-0.36971	-0.30462
theta[26]	0.914445	0.51324	theta[65]	0.980656	0.835097
theta[27]	0.276458	-0.04037	theta[66]	-0.94817	-0.42774
theta[28]	0.621041	0.420155	theta[67]	1.512992	0.709007
theta[29]	0.027562	-0.11324	theta[68]	0.08414	0.109664
theta[30]	-1.72997	-0.37891	theta[69]	0.021341	0.002666
theta[31]	0.733787	0.36315	theta[70]	-0.80964	-0.0423
theta[32]	-0.06476	-0.23197	theta[71]	-1.21276	-0.51469
theta[33]	0.984762	0.65283	theta[72]	-0.81652	-0.39058
theta[34]	-1.29276	-0.68621	theta[73]	-1.25947	-0.86477
theta[35]	-0.017	0.214067	theta[74]	-0.0433	-0.06707
theta[36]	1.813361	0.533985	theta[75]	-2.96246	-0.67572
theta[37]	-0.16873	-0.18456	theta[76]	0.94429	0.3367
theta[38]	-0.28225	-0.43939	theta[77]	0.375803	0.125326
theta[39]	0.55275	0.319337	theta[78]	0.15837	-0.20753
theta[40]	-0.59401	-0.56985	theta[79]	1.4474	0.867928
theta[41]	-0.67873	-0.4056	theta[80]	0.304484	0.161069
theta[42]	-0.37294	-0.46777	theta[81]	-0.05352	-0.17389
theta[43]	0.074043	0.041678	theta[82]	0.121523	0.322368
theta[44]	-0.66885	-0.48096	theta[83]	-0.54315	-0.21529
theta[45]	-0.37518	-0.1142	theta[84]	2.422371	1.667123
theta[46]	0.299038	0.110563	theta[85]	-0.43382	-0.34998
theta[47]	-0.20604	-0.03636	theta[86]	0.694336	0.31774
theta[48]	-0.76112	-0.47939	theta[87]	-2.03076	-0.66967

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>	<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[88]	-0.55726	-0.40302	theta[526]	-0.43061	-0.38328
theta[89]	-0.51858	-0.46689	theta[527]	-0.0333	-0.28848
theta[90]	-0.67827	-0.3898	theta[528]	-0.4931	-0.27476
theta[91]	2.668046	1.428845	theta[529]	-0.85697	-0.34346
theta[92]	0.522103	-0.05988	theta[530]	-0.79286	-0.1529
theta[93]	-0.33994	-0.25285	theta[531]	0.049301	0.142369
theta[94]	0.475639	-0.08834	theta[532]	-1.71125	-0.35738
theta[95]	0.226332	-0.15085	theta[533]	0.241023	0.212084
theta[96]	0.020274	-0.21311	theta[534]	-0.83773	-0.60011
theta[97]	1.703733	0.81992	theta[535]	1.505235	0.941663
theta[98]	-1.06479	-0.64059	theta[536]	-0.07802	-0.04108
theta[99]	0.732972	0.448026	theta[537]	-1.14902	-0.65714
theta[100]	0.872833	0.25483	theta[538]	0.267763	0.063893
.....	.....	.....	theta[539]	0.610207	0.434962
theta[501]	1.104356	0.264593	theta[540]	-0.11499	-0.00537
theta[502]	-0.11387	-0.22933	theta[541]	0.049328	0.097145
theta[503]	0.560094	0.329141	theta[542]	-0.90147	-0.43139
theta[504]	0.203942	0.01996	theta[543]	-1.39674	-0.27474
theta[505]	-0.52234	-0.37454	theta[544]	-0.30297	-0.35939
theta[506]	-1.20044	-0.27138	theta[545]	0.652026	0.184432
theta[507]	-0.95439	-0.5793	theta[546]	0.856367	0.576084
theta[508]	0.984526	0.577223	theta[547]	0.853555	0.171207
theta[509]	-1.67758	-0.96845	theta[548]	0.847993	0.683633
theta[510]	0.872427	0.191345	theta[549]	0.574948	-0.06391
theta[511]	0.682671	0.486411	theta[550]	0.986271	0.682244
theta[512]	0.203595	0.114426	theta[551]	-1.05022	-0.60583
theta[513]	0.152028	-0.19	theta[552]	0.002967	0.194582
theta[514]	0.18873	0.217083	theta[553]	1.806866	1.305583
theta[515]	1.935248	1.0385	theta[554]	-0.71065	-0.46132
theta[516]	0.882868	0.630429	theta[555]	-0.81458	-0.64104
theta[517]	0.900308	0.553113	theta[556]	-0.34119	-0.14713
theta[518]	0.715491	0.245963	theta[557]	0.643925	0.406588
theta[519]	0.412369	0.207727	theta[558]	-0.17069	-0.31362
theta[520]	0.011997	-0.00827	theta[559]	-0.55945	-0.27059
theta[521]	-1.07077	-0.73926	theta[560]	0.035354	-0.15502
theta[522]	-0.93699	-0.12895	theta[561]	-0.24417	-0.43016
theta[523]	-0.75109	-0.43483	theta[562]	0.759203	0.020673
theta[524]	0.883123	0.417286	theta[563]	0.177331	0.189863
theta[525]	0.731704	0.271062	theta[564]	-1.18126	-0.80319

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[565]	1.505174	1.190337
theta[566]	1.641895	1.08165
theta[567]	2.264374	1.32066
theta[568]	0.666167	-0.07563
theta[569]	1.676888	0.890721
theta[570]	1.07425	0.385966
theta[571]	0.169868	0.127659
theta[572]	0.944939	0.429407
theta[573]	0.541931	0.378025
theta[574]	-0.27158	-0.47192
theta[575]	0.390406	0.457308
theta[576]	0.316974	0.036435
theta[577]	-0.34363	-0.34325
theta[578]	-0.83379	-0.34242
theta[579]	0.784678	0.428469
theta[580]	-0.32924	-0.19442
theta[581]	-1.05953	-0.24269
theta[582]	0.187475	0.14382
theta[583]	0.764935	0.069608
theta[584]	0.722564	0.405338
theta[585]	-0.19971	-0.2046
theta[586]	-1.40624	-0.80161
theta[587]	-0.22622	-0.29433

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[588]	-1.21809	-0.71225
theta[589]	0.917016	0.568719
theta[590]	0.991385	0.578414
theta[591]	-0.24253	-0.2857
theta[592]	0.813657	0.152113
theta[593]	-0.1519	0.053332
theta[594]	0.448936	0.415874
theta[595]	0.516366	0.173789
theta[596]	-0.90038	-0.63646
theta[597]	-0.24237	-0.25085
theta[598]	0.453873	0.267953
theta[599]	0.449187	0.09941
theta[600]	0.224365	-0.07232
xi[1]	0.053424	0.0661
xi[2]	0.606765	0.63197
xi[3]	0.112806	0.128611
xi[4]	0.558029	0.577663
xi[5]	0.116654	0.121544
xi[6]	0.297337	0.303077
xi[7]	0.738549	0.75388
xi[8]	1.331617	1.343633
xi[9]	0.61348	0.632413
xi[10]	1.529282	1.547967

**Lampiran 18. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=600; m=20)**

NODE	BANGKITAN	RERATA ESTIMASI
a[1]	0.944382	0.965077
a[2]	0.532126	0.535507
a[3]	0.703178	0.726777
a[4]	0.408241	0.411943
a[5]	0.908599	0.917003
a[6]	0.992439	0.99736
a[7]	1.659499	1.7456
a[8]	1.498708	1.5551
a[9]	0.804193	0.844477
a[10]	0.926516	0.976853
a[11]	0.749531	0.81668
a[12]	1.217771	1.245277
a[13]	0.893436	0.929397
a[14]	1.506254	1.527187
a[15]	1.526587	1.6021
a[16]	1.018507	1.194137
a[17]	0.967301	1.060977
a[18]	0.602448	0.670147
a[19]	0.707045	0.83534
a[20]	0.486596	0.558043
b[1]	-2	-2.00243
b[2]	-1.8	-1.7966
b[3]	-1.6	-1.6132
b[4]	-1.4	-1.41187
b[5]	-1.2	-1.22427
b[6]	-1	-1.03434
b[7]	-0.8	-0.83812
b[8]	-0.6	-0.63361
b[9]	-0.4	-0.43297
b[10]	-0.2	-0.26876
b[11]	0.2	0.113384
b[12]	0.4	0.332673
b[13]	0.6	0.559983
b[14]	0.8	0.73006
b[15]	1	0.884917
b[16]	1.2	1.00546
b[17]	1.4	1.253133

NODE	BANGKITAN	RERATA ESTIMASI
b[18]	1.6	1.377567
b[19]	1.8	1.5615
b[20]	2	1.6071
tau[1]	0.742778	0.791643
tau[2]	0.220928	0.306543
tau[3]	0.419233	0.509297
tau[4]	1.033673	0.914073
tau[5]	0.848764	0.91353
tau[6]	0.835489	0.797757
tau[7]	1.324193	1.330167
tau[8]	0.617059	0.62364
tau[9]	0.548396	0.531377
tau[10]	1.442957	1.396
tau[11]	0.603322	0.558757
tau[12]	1.804043	1.793233
tau[13]	1.295726	1.230457
tau[14]	0.314503	0.322713
tau[15]	1.714491	1.6584
tau[16]	0.857045	0.812483
tau[17]	0.169584	0.315877
tau[18]	2.08217	1.995067
tau[19]	1.162814	1.213843
tau[20]	1.260892	1.28195
tau[21]	0.988742	0.90383
tau[22]	0.720378	0.70486
tau[23]	1.287452	1.337613
tau[24]	0.627592	0.64098
tau[25]	0.720691	0.791173
tau[26]	0.85804	0.800823
tau[27]	2.754776	2.6156
tau[28]	1.061213	1.03933
tau[29]	0.976235	1.00381
tau[30]	1.425455	1.333137
tau[31]	0.545298	0.566597
tau[32]	1.086629	1.046823
tau[33]	1.372627	1.359317
tau[34]	0.091855	0.256273

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[35]	0.94835	0.96159
tau[36]	1.655883	1.6708
tau[37]	0.338858	0.413393
tau[38]	0.137073	0.244187
tau[39]	0.823676	0.81883
tau[40]	0.00824	0.182312
tau[41]	1.277933	1.17171
tau[42]	0.184814	0.272703
tau[43]	0.732001	0.677457
tau[44]	0.431889	0.397754
tau[45]	0.112328	0.221297
tau[46]	0.306373	0.333545
tau[47]	1.644053	1.589067
tau[48]	0.098939	0.252095
tau[49]	2.067731	1.928867
tau[50]	2.284039	2.123867
tau[51]	0.147699	0.214894
tau[52]	0.861778	0.769103
tau[53]	0.21548	0.367397
tau[54]	0.354866	0.363057
tau[55]	0.450563	0.550633
tau[56]	0.43212	0.36683
tau[57]	1.184417	1.127487
tau[58]	0.390769	0.412177
tau[59]	0.273815	0.370073
tau[60]	0.253962	0.348337
tau[61]	1.689082	1.6162
tau[62]	0.172192	0.269133
tau[63]	1.44857	1.4407
tau[64]	1.355444	1.284933
tau[65]	0.876798	0.790363
tau[66]	0.025875	0.219247
tau[67]	0.44886	0.461053
tau[68]	2.121343	2.0595
tau[69]	1.992848	1.890333
tau[70]	0.661808	0.60757
tau[71]	0.0833	0.21187
tau[72]	0.334232	0.42884
tau[73]	0.704986	0.688143

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[74]	1.543389	1.48535
tau[75]	0.437743	0.44173
tau[76]	0.825422	0.816187
tau[77]	1.773782	1.698233
tau[78]	1.835376	1.781533
tau[79]	1.440188	1.456067
tau[80]	1.88266	1.749467
tau[81]	1.858019	1.7537
tau[82]	0.600365	0.610113
tau[83]	0.820429	0.781657
tau[84]	0.275215	0.355383
tau[85]	0.378613	0.351253
tau[86]	0.386663	0.374693
tau[87]	0.051869	0.190793
tau[88]	0.287391	0.34864
tau[89]	0.264657	0.370077
tau[90]	0.893473	0.74607
tau[91]	0.206515	0.293351
tau[92]	1.120959	1.065023
tau[93]	0.396492	0.49662
tau[94]	0.342242	0.457657
tau[95]	1.05322	1.004867
tau[96]	1.43171	1.34595
tau[97]	0.228068	0.3255
tau[98]	0.554212	0.637647
tau[99]	0.320891	0.3907
tau[100]	0.116086	0.266603
.....	.....	.....
tau[501]	0.799246	0.722993
tau[502]	1.66806	1.652833
tau[503]	0.035536	0.241167
tau[504]	1.213001	1.148793
tau[505]	0.60355	0.685407
tau[506]	0.111621	0.270038
tau[507]	1.433482	1.438497
tau[508]	0.985565	0.910313
tau[509]	0.04726	0.22728
tau[510]	0.515216	0.560833
tau[511]	1.981821	1.9174

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[512]	0.59709	0.595573
tau[513]	1.643008	1.632633
tau[514]	0.630404	0.687657
tau[515]	0.444609	0.517373
tau[516]	0.052013	0.251941
tau[517]	1.178965	1.10618
tau[518]	0.088412	0.249574
tau[519]	0.090829	0.238137
tau[520]	0.355343	0.34207
tau[521]	0.581671	0.484927
tau[522]	0.806027	0.836457
tau[523]	1.079071	1.05989
tau[524]	0.54039	0.546367
tau[525]	0.22725	0.275407
tau[526]	0.210688	0.29402
tau[527]	0.293299	0.356193
tau[528]	0.097526	0.239982
tau[529]	0.090015	0.265067
tau[530]	0.255732	0.35183
tau[531]	1.656407	1.5981
tau[532]	0.816981	0.737553
tau[533]	0.619669	0.596687
tau[534]	0.498921	0.454753
tau[535]	0.11023	0.223376
tau[536]	0.703024	0.709087
tau[537]	0.445189	0.479267
tau[538]	0.311173	0.35278
tau[539]	0.564158	0.547787
tau[540]	1.320966	1.253703
tau[541]	0.853545	0.906153
tau[542]	0.380258	0.366693
tau[543]	0.178059	0.290327
tau[544]	0.032513	0.230597
tau[545]	1.417192	1.40469
tau[546]	0.01301	0.188663
tau[547]	1.581957	1.501267
tau[548]	0.069205	0.266234
tau[549]	0.819926	0.76678
tau[550]	0.512926	0.456197

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[551]	0.798049	0.745443
tau[552]	0.106652	0.210311
tau[553]	1.05304	1.026107
tau[554]	0.637065	0.686447
tau[555]	0.836289	0.72953
tau[556]	1.089437	1.10345
tau[557]	2.187107	2.135067
tau[558]	1.149412	1.15513
tau[559]	0.681978	0.632517
tau[560]	1.401938	1.354797
tau[561]	0.162356	0.236376
tau[562]	0.175454	0.334697
tau[563]	0.824681	0.893523
tau[564]	0.449929	0.455413
tau[565]	1.034416	1.013853
tau[566]	1.593785	1.5282
tau[567]	0.791015	0.767027
tau[568]	0.453238	0.55078
tau[569]	0.611945	0.608357
tau[570]	0.292019	0.35855
tau[571]	0.656857	0.613877
tau[572]	1.15124	1.12624
tau[573]	1.390887	1.34702
tau[574]	0.323357	0.366673
tau[575]	2.05E-05	0.190808
tau[576]	2.034184	1.896767
tau[577]	0.951706	0.826023
tau[578]	0.920886	0.875367
tau[579]	0.448341	0.403563
tau[580]	2.360333	2.285367
tau[581]	0.096292	0.234627
tau[582]	2.122493	2.055133
tau[583]	0.791905	0.74091
tau[584]	0.403408	0.40698
tau[585]	0.365423	0.349809
tau[586]	0.800866	0.690783
tau[587]	0.468168	0.499347
tau[588]	0.819188	0.848027
tau[589]	0.469396	0.416587

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[590]	1.485016	1.482333
tau[591]	0.868959	0.836613
tau[592]	0.202664	0.33144
tau[593]	0.766639	0.81569
tau[594]	1.583834	1.523467
tau[595]	0.418343	0.366927
tau[596]	0.245723	0.362107
tau[597]	1.126719	1.06637
tau[598]	1.278875	1.192807
tau[599]	1.016844	0.847843
tau[600]	1.237095	1.239737
theta[1]	-1.46724	-0.93238
theta[2]	0.878488	0.707415
theta[3]	-0.62943	-0.63674
theta[4]	0.719043	0.3771
theta[5]	-1.24388	-0.72147
theta[6]	0.184123	0.137852
theta[7]	-1.48741	-0.72671
theta[8]	0.201969	-0.02732
theta[9]	1.245242	1.028363
theta[10]	-0.11729	-0.29783
theta[11]	0.168993	0.071949
theta[12]	-1.03448	-0.45047
theta[13]	-0.54074	-0.31624
theta[14]	1.751788	1.421823
theta[15]	-0.0474	-0.15446
theta[16]	-0.35202	-0.43714
theta[17]	-1.54353	-1.12984
theta[18]	-0.78768	-0.39022
theta[19]	-2.1297	-0.83572
theta[20]	-0.6594	-0.46193
theta[21]	0.764861	0.364006
theta[22]	1.113294	0.919337
theta[23]	-0.45784	-0.1808
theta[24]	-1.65767	-1.23319
theta[25]	-0.48548	-0.43132
theta[26]	0.542862	0.326572
theta[27]	-2.17368	-0.13777
theta[28]	-1.06746	-0.83894

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[29]	-1.02027	-0.82388
theta[30]	0.974291	0.413708
theta[31]	-0.20613	-0.24447
theta[32]	-0.18285	-0.29431
theta[33]	-1.31969	-0.63038
theta[34]	-0.75206	-0.73817
theta[35]	-1.14798	-0.78017
theta[36]	-1.67932	-0.49598
theta[37]	-0.51457	-0.58429
theta[38]	0.096723	0.062279
theta[39]	-1.07008	-0.87377
theta[40]	2.191755	1.939767
theta[41]	1.135312	0.633576
theta[42]	0.857807	0.764733
theta[43]	2.091075	1.7888
theta[44]	1.436558	1.011447
theta[45]	0.489678	0.451089
theta[46]	2.037502	1.664077
theta[47]	-0.2999	-0.1875
theta[48]	-1.43744	-0.99852
theta[49]	0.362618	-0.13714
theta[50]	1.10286	0.142171
theta[51]	2.03229	1.744433
theta[52]	0.685533	0.445049
theta[53]	-0.54519	-0.47704
theta[54]	0.379891	0.319483
theta[55]	-2.22174	-1.371
theta[56]	1.041376	0.884303
theta[57]	0.666878	0.437318
theta[58]	-0.3237	-0.29969
theta[59]	0.063882	0.043832
theta[60]	-1.00314	-0.81678
theta[61]	0.525717	-0.02943
theta[62]	0.400945	0.422556
theta[63]	0.310792	-0.12532
theta[64]	1.406864	0.827393
theta[65]	1.477003	1.174693
theta[66]	0.716199	0.692974
theta[67]	0.960354	0.707401

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[68]	0.950825	0.195826
theta[69]	-0.22474	-0.1642
theta[70]	0.622842	0.314659
theta[71]	1.475	1.32846
theta[72]	0.566062	0.431465
theta[73]	-0.49353	-0.59294
theta[74]	0.560106	0.129347
theta[75]	0.376002	0.233975
theta[76]	-0.11791	-0.19627
theta[77]	-0.04035	-0.12416
theta[78]	-1.71243	-0.5056
theta[79]	-0.98678	-0.49719
theta[80]	-0.09233	-0.38694
theta[81]	-0.47293	-0.37138
theta[82]	0.63836	0.574955
theta[83]	-0.83473	-0.7453
theta[84]	-1.05401	-0.82514
theta[85]	0.860437	0.56266
theta[86]	0.605837	0.468703
theta[87]	-0.08334	-0.00929
theta[88]	0.133207	0.154223
theta[89]	-0.87176	-0.60991
theta[90]	1.884679	1.41498
theta[91]	0.825864	0.71219
theta[92]	0.261916	-0.13234
theta[93]	-1.71522	-1.20193
theta[94]	-2.42087	-1.33831
theta[95]	0.644324	0.285889
theta[96]	0.843188	0.306381
theta[97]	-1.54221	-1.23047
theta[98]	-0.52535	-0.48152
theta[99]	-0.41373	-0.39883
theta[100]	-2.50046	-1.5563
.....	.....	.....
theta[501]	0.332994	0.065001
theta[502]	-0.69018	-0.35188
theta[503]	-0.59508	-0.53009
theta[504]	-1.26583	-0.82085
theta[505]	-1.07242	-0.80534

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[506]	0.658304	0.693013
theta[507]	0.020924	-0.01441
theta[508]	1.70548	1.281173
theta[509]	0.135252	0.240783
theta[510]	-0.83569	-0.74323
theta[511]	0.625918	0.248109
theta[512]	-0.2048	-0.20653
theta[513]	-0.48191	-0.42521
theta[514]	-1.24495	-0.92919
theta[515]	-0.50944	-0.55128
theta[516]	-1.46412	-1.16292
theta[517]	1.112491	0.570957
theta[518]	0.921579	0.781654
theta[519]	-0.59247	-0.52629
theta[520]	2.032522	1.745933
theta[521]	1.882123	1.54265
theta[522]	-0.94056	-0.95247
theta[523]	-0.39328	-0.45023
theta[524]	-0.6229	-0.6031
theta[525]	0.980905	0.801523
theta[526]	-1.53347	-1.14571
theta[527]	0.746086	0.56364
theta[528]	-0.25095	-0.21754
theta[529]	1.15311	1.056217
theta[530]	-1.11291	-0.90657
theta[531]	-1.68554	-0.58109
theta[532]	0.78951	0.509589
theta[533]	1.055004	0.906767
theta[534]	1.17454	0.840833
theta[535]	0.987406	0.88995
theta[536]	-1.14064	-0.82323
theta[537]	0.115176	0.022549
theta[538]	-0.43251	-0.51237
theta[539]	-0.34757	-0.44345
theta[540]	-0.25592	-0.30635
theta[541]	-0.42509	-0.38005
theta[542]	2.359947	1.8794
theta[543]	0.475343	0.486858
theta[544]	-0.23592	-0.02061

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[545]	-0.4756	-0.48511
theta[546]	0.653103	0.658627
theta[547]	1.153824	0.691404
theta[548]	-0.58252	-0.45585
theta[549]	0.205802	0.026715
theta[550]	1.485859	1.14409
theta[551]	-1.37225	-0.93571
theta[552]	1.188187	1.05396
theta[553]	0.7202	0.430621
theta[554]	-1.34903	-1.01975
theta[555]	1.843351	1.371023
theta[556]	-1.29922	-0.75486
theta[557]	0.544246	-0.06144
theta[558]	-0.23098	-0.46803
theta[559]	-0.23396	-0.23727
theta[560]	0.009493	-0.23912
theta[561]	2.016872	1.67317
theta[562]	-2.55399	-1.49843
theta[563]	-0.706	-0.65085
theta[564]	0.881037	0.799046
theta[565]	0.752407	0.394995
theta[566]	1.850583	1.158758
theta[567]	0.708629	0.554532
theta[568]	-1.32874	-1.00213
theta[569]	-0.73679	-0.57908
theta[570]	-0.1102	-0.08185
theta[571]	1.101129	0.859385
theta[572]	-0.18343	-0.17166
theta[573]	0.678804	0.189374
theta[574]	-0.16767	-0.22844
theta[575]	0.406192	0.384258
theta[576]	-0.52168	-0.3822
theta[577]	1.452593	0.993597
theta[578]	1.113782	0.725181
theta[579]	-0.18933	-0.1856
theta[580]	0.796137	0.015782
theta[581]	0.658941	0.602987
theta[582]	1.652935	0.629981
theta[583]	1.347914	1.091433

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[584]	-0.5309	-0.53
theta[585]	0.670994	0.495208
theta[586]	2.093369	1.5986
theta[587]	0.578421	0.37517
theta[588]	0.044359	-0.11807
theta[589]	0.917094	0.64997
theta[590]	0.037794	-0.17035
theta[591]	-0.32621	-0.26042
theta[592]	-0.92475	-0.7703
theta[593]	-0.55139	-0.5273
theta[594]	-1.40232	-0.60745
theta[595]	1.286882	0.994607
theta[596]	-0.81762	-0.59689
theta[597]	0.422204	0.11487
theta[598]	0.979282	0.68287
theta[599]	2.44485	1.8616
theta[600]	-0.04822	-0.23345
xi[1]	0.894496	0.895133
xi[2]	1.994901	2.017133
xi[3]	0.893728	0.91177
xi[4]	0.492904	0.508713
xi[5]	0.733164	0.745343
xi[6]	0.214258	0.22648
xi[7]	0.450249	0.453193
xi[8]	1.626876	1.642967
xi[9]	1.458248	1.465667
xi[10]	1.234032	1.261733
xi[11]	0.578578	0.587777
xi[12]	0.83081	0.8498
xi[13]	0.405864	0.42135
xi[14]	0.014093	0.055933
xi[15]	0.700063	0.7129
xi[16]	0.176215	0.186667
xi[17]	1.334336	1.3468
xi[18]	0.513763	0.53548
xi[19]	0.224596	0.241577
xi[20]	0.582063	0.601553

**Lampiran 19. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=600; m=40)**

NODE	BANGKITAN	RERATA ESTIMASI
a[1]	1.401303	1.413867
a[2]	0.702296	0.703063
a[3]	1.657746	1.578833
a[4]	1.835349	1.627233
a[5]	1.334673	1.327433
a[6]	1.405276	1.361533
a[7]	0.532356	0.54134
a[8]	0.60344	0.55765
a[9]	0.592632	0.579473
a[10]	1.195949	1.213467
a[11]	1.955391	1.764567
a[12]	1.664998	1.557633
a[13]	1.440088	1.4209
a[14]	1.274209	1.2564
a[15]	0.493491	0.47174
a[16]	0.562225	0.55902
a[17]	1.280297	1.253907
a[18]	0.460293	0.41312
a[19]	1.658044	1.661533
a[20]	0.940522	0.90441
a[21]	1.688052	1.6516
a[22]	0.841669	0.844657
a[23]	1.132685	1.08879
a[24]	0.75664	0.75289
a[25]	1.064086	1.048583
a[26]	0.824705	0.817327
a[27]	1.309321	1.248967
a[28]	1.422993	1.370833
a[29]	0.712261	0.708553
a[30]	1.526643	1.392137
a[31]	1.590451	1.572933
a[32]	0.814536	0.841277
a[33]	0.620237	0.645933
a[34]	1.778621	1.705333
a[35]	0.63871	0.67367
a[36]	0.979931	1.068557
a[37]	1.751979	1.699533

NODE	BANGKITAN	RERATA ESTIMASI
a[38]	1.729873	1.569033
a[39]	0.563243	0.60599
a[40]	0.464389	0.527513
b[1]	-2	-2.02107
b[2]	-1.9	-1.8871
b[3]	-1.8	-1.77913
b[4]	-1.7	-1.65513
b[5]	-1.6	-1.59257
b[6]	-1.5	-1.46853
b[7]	-1.4	-1.32213
b[8]	-1.3	-1.22807
b[9]	-1.2	-1.12436
b[10]	-1.1	-1.07898
b[11]	-1	-0.97018
b[12]	-0.9	-0.85722
b[13]	-0.8	-0.74443
b[14]	-0.7	-0.66681
b[15]	-0.6	-0.50351
b[16]	-0.5	-0.43888
b[17]	-0.4	-0.39966
b[18]	-0.3	-0.19846
b[19]	-0.2	-0.15141
b[20]	-0.1	-0.09196
b[21]	0.1	0.125899
b[22]	0.2	0.215629
b[23]	0.3	0.440793
b[24]	0.4	0.469533
b[25]	0.5	0.648883
b[26]	0.6	0.71565
b[27]	0.7	0.818887
b[28]	0.8	0.931787
b[29]	0.9	0.976193
b[30]	1	1.20961
b[31]	1.1	1.297733
b[32]	1.2	1.27636
b[33]	1.3	1.3804
b[34]	1.4	1.534933

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
b[35]	1.5	1.4705
b[36]	1.6	1.5762
b[37]	1.7	1.883033
b[38]	1.8	1.966233
b[39]	1.9	1.778767
b[40]	2	1.634633
.....	.....	.....
tau[201]	1.37697	1.346433
tau[202]	1.283723	1.350433
tau[203]	1.276432	1.23026
tau[204]	0.068988	0.192951
tau[205]	0.228056	0.281297
tau[206]	0.78799	0.723543
tau[207]	0.496265	0.456967
tau[208]	0.614758	0.572683
tau[209]	0.405648	0.34357
tau[210]	0.196038	0.264367
tau[211]	0.360152	0.280583
tau[212]	1.020605	0.997657
tau[213]	0.026115	0.144004
tau[214]	0.142833	0.191697
tau[215]	0.156483	0.193775
tau[216]	0.219673	0.24001
tau[217]	1.16823	1.0949
tau[218]	1.276048	1.206267
tau[219]	1.94335	1.886067
tau[220]	1.370966	1.3118
tau[221]	1.15255	1.061987
tau[222]	0.932988	0.839647
tau[223]	0.83039	0.81053
tau[224]	0.676953	0.63593
tau[225]	0.791323	0.899497
tau[226]	1.026001	0.973223
tau[227]	0.079001	0.202203
tau[228]	1.094386	1.09402
tau[229]	0.751471	0.800227
tau[230]	1.39915	1.471033
tau[231]	0.637255	0.594847
tau[232]	0.288839	0.32013

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[233]	0.34126	0.34188
tau[234]	1.149705	1.15814
tau[235]	0.298338	0.281907
tau[236]	0.804352	0.742887
tau[237]	0.551099	0.574207
tau[238]	0.447344	0.480063
tau[239]	0.116512	0.208047
tau[240]	0.430896	0.38851
tau[241]	0.001469	0.150338
tau[242]	0.238427	0.259123
tau[243]	0.187921	0.255698
tau[244]	1.051931	0.951487
tau[245]	1.236015	1.213167
tau[246]	0.570558	0.55376
tau[247]	0.145926	0.2011
tau[248]	0.789764	0.84419
tau[249]	0.708655	0.691827
tau[250]	0.502403	0.52865
tau[251]	0.370279	0.392923
tau[252]	0.970896	0.91437
tau[253]	1.509168	1.5461
tau[254]	0.710697	0.707597
tau[255]	2.223474	2.145233
tau[256]	0.800059	0.785153
tau[257]	0.844961	0.895043
tau[258]	0.189167	0.249993
tau[259]	0.180483	0.225597
tau[260]	0.08846	0.178717
tau[261]	1.966775	1.873333
tau[262]	0.491908	0.475047
tau[263]	0.65144	0.65399
tau[264]	1.854318	1.7544
tau[265]	0.8449	0.847487
tau[266]	0.332189	0.336893
tau[267]	0.521644	0.518513
tau[268]	1.484904	1.435267
tau[269]	0.405623	0.45807
tau[270]	0.17166	0.200027
tau[271]	1.723689	1.6967

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[272]	0.096137	0.170845
tau[273]	0.902801	0.940663
tau[274]	0.856365	0.85781
tau[275]	0.104741	0.181293
tau[276]	2.316783	2.133967
tau[277]	0.515658	0.497657
tau[278]	0.487988	0.472017
tau[279]	0.108226	0.203638
tau[280]	0.642178	0.61662
tau[281]	1.423371	1.417733
tau[282]	0.237809	0.28481
tau[283]	0.756147	0.79848
tau[284]	0.345174	0.380283
tau[285]	2.032169	2.004933
tau[286]	0.744862	0.724807
tau[287]	1.362402	1.357367
tau[288]	0.100769	0.154695
tau[289]	0.571349	0.542723
tau[290]	0.939969	0.839177
tau[291]	0.635	0.635147
tau[292]	0.539878	0.512903
tau[293]	0.137999	0.178509
tau[294]	1.624421	1.6486
tau[295]	0.102093	0.230993
tau[296]	0.675359	0.658917
tau[297]	0.720804	0.71123
tau[298]	0.940218	0.898527
tau[299]	1.268178	1.258
tau[300]	0.416263	0.370313
tau[301]	0.021179	0.138556
tau[302]	1.893187	1.898233
tau[303]	0.74841	0.78229
tau[304]	0.840084	0.866473
tau[305]	0.863129	0.855733
tau[306]	2.134383	2.056433
tau[307]	1.191356	1.148353
tau[308]	0.41333	0.418657
tau[309]	0.75133	0.751437
tau[310]	0.821991	0.85198

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[311]	0.456642	0.511857
tau[312]	1.557318	1.5352
tau[313]	1.493694	1.48
tau[314]	0.948137	0.951573
tau[315]	0.740054	0.724507
tau[316]	0.015862	0.119847
tau[317]	2.311986	2.315767
tau[318]	0.26158	0.267217
tau[319]	0.371341	0.420543
tau[320]	1.252039	1.341333
tau[321]	0.203719	0.21308
tau[322]	0.061099	0.174757
tau[323]	0.002223	0.142072
tau[324]	0.113224	0.180684
tau[325]	0.780101	0.722437
tau[326]	0.987904	0.944487
tau[327]	0.577178	0.56032
tau[328]	1.403886	1.312267
tau[329]	0.530657	0.504153
tau[330]	0.427095	0.434003
tau[331]	0.543306	0.56466
tau[332]	0.414627	0.472473
tau[333]	0.665847	0.68494
tau[334]	0.222667	0.251637
tau[335]	2.15458	2.072833
tau[336]	0.069303	0.131958
tau[337]	0.033677	0.162994
tau[338]	1.465571	1.364233
tau[339]	0.07726	0.164343
tau[340]	0.98992	0.89977
tau[341]	1.166355	1.114057
tau[342]	0.275583	0.291353
tau[343]	1.069759	1.089507
tau[344]	0.2991	0.30148
tau[345]	2.03336	2.0412
tau[346]	0.472082	0.586187
tau[347]	0.584862	0.625137
tau[348]	0.84781	0.898457
tau[349]	1.351228	1.328067

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[350]	1.545014	1.5198
tau[351]	1.142567	1.102523
tau[352]	1.342058	1.26324
tau[353]	1.827051	1.784233
tau[354]	0.551724	0.49998
tau[355]	0.685319	0.725387
tau[356]	0.563157	0.53384
tau[357]	0.893484	0.935077
tau[358]	0.572793	0.554213
tau[359]	0.430227	0.425067
tau[360]	0.088182	0.164789
tau[361]	1.487189	1.3956
tau[362]	0.609711	0.613197
tau[363]	0.542091	0.542043
tau[364]	1.022274	0.96574
tau[365]	0.883504	0.86907
tau[366]	1.71164	1.650767
tau[367]	0.127423	0.237816
tau[368]	0.483713	0.404987
tau[369]	2.384774	2.396533
tau[370]	1.492381	1.404067
tau[371]	1.448531	1.454767
tau[372]	1.014674	0.963523
tau[373]	1.71001	1.6616
tau[374]	2.191437	2.045667
tau[375]	2.149036	2.1109
tau[376]	1.569627	1.5862
tau[377]	1.112406	1.05734
tau[378]	1.630515	1.531567
tau[379]	1.085163	1.111527
tau[380]	0.197792	0.21506
tau[381]	0.425677	0.443283
tau[382]	0.242438	0.229965
tau[383]	1.114144	1.111987
tau[384]	0.548285	0.515537
tau[385]	0.542617	0.523297
tau[386]	1.256809	1.281667
tau[387]	0.339736	0.392013
tau[388]	0.205507	0.309113

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
tau[389]	1.864825	1.7977
tau[390]	0.932896	0.97828
tau[391]	0.900833	0.848277
tau[392]	0.106722	0.179643
tau[393]	0.042806	0.173125
tau[394]	0.428976	0.47107
tau[395]	0.772524	0.73579
tau[396]	1.102997	1.030707
tau[397]	0.304696	0.31953
tau[398]	1.331816	1.289433
tau[399]	0.447341	0.48083
tau[400]	0.070435	0.15852
.....	.....	.....
theta[201]	8.69E-01	0.536251
theta[202]	-1.74E+00	-1.06949
theta[203]	3.24E-01	0.118999
theta[204]	-4.24E-02	0.061183
theta[205]	-1.91E+00	-1.68087
theta[206]	-1.95E-01	-0.34086
theta[207]	3.06E-01	0.35163
theta[208]	-8.57E-01	-0.95742
theta[209]	1.02E+00	0.888647
theta[210]	-2.48E-01	-0.19379
theta[211]	1.42E+00	1.32724
theta[212]	-2.30E-01	-0.20226
theta[213]	-1.36E+00	-1.1701
theta[214]	6.25E-01	0.615547
theta[215]	3.81E-01	0.48094
theta[216]	5.77E-01	0.651983
theta[217]	5.85E-01	0.365342
theta[218]	-6.71E-01	-0.82782
theta[219]	2.04E-01	-0.16285
theta[220]	1.14E+00	0.774693
theta[221]	4.40E-01	0.030369
theta[222]	1.39E+00	1.215257
theta[223]	-2.23E+00	-1.5181
theta[224]	4.33E-01	0.352493
theta[225]	-9.97E-01	-0.93813
theta[226]	8.97E-01	0.82208

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[227]	-6.21E-01	-0.46013
theta[228]	-7.94E-01	-0.77256
theta[229]	-1.47E+00	-1.33589
theta[230]	-8.66E-01	-0.757
theta[231]	1.39E-01	-0.0268
theta[232]	-1.89E-01	-0.11242
theta[233]	9.00E-01	0.808877
theta[234]	-5.00E-02	-0.32581
theta[235]	2.01E+00	2.019267
theta[236]	-7.65E-01	-0.84229
theta[237]	-3.15E-01	-0.25932
theta[238]	-1.67E+00	-1.55509
theta[239]	-1.70E+00	-1.54853
theta[240]	-3.67E-01	-0.31639
theta[241]	-2.44E-01	0.092043
theta[242]	1.72E-01	0.183111
theta[243]	-9.94E-01	-0.9299
theta[244]	1.83E+00	1.7509
theta[245]	-2.22E+00	-1.21507
theta[246]	8.99E-02	0.057121
theta[247]	-7.46E-01	-0.70058
theta[248]	-6.03E-01	-0.5277
theta[249]	5.47E-02	0.005438
theta[250]	-1.36E+00	-1.18913
theta[251]	-1.85E-01	-0.19807
theta[252]	7.49E-01	0.593317
theta[253]	-1.15E+00	-0.68571
theta[254]	5.33E-01	0.529968
theta[255]	6.79E-01	0.265243
theta[256]	5.20E-01	0.61052
theta[257]	2.55E-01	0.366326
theta[258]	-3.08E-01	-0.18887
theta[259]	1.55E+00	1.351037
theta[260]	9.32E-01	0.919737
theta[261]	4.46E-01	-0.20711
theta[262]	-2.94E-01	-0.25791
theta[263]	-2.33E+00	-1.56472
theta[264]	4.37E-01	0.343116
theta[265]	6.10E-01	0.54532

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[266]	-2.36E-01	-0.22522
theta[267]	7.10E-01	0.653473
theta[268]	4.82E-01	0.188392
theta[269]	-8.30E-01	-0.79921
theta[270]	2.36E-01	0.299738
theta[271]	6.99E-01	0.229023
theta[272]	6.20E-01	0.669617
theta[273]	-8.15E-01	-0.7392
theta[274]	-1.35E-02	-0.14692
theta[275]	-3.60E-01	-0.20159
theta[276]	2.03E-01	-0.04586
theta[277]	9.19E-01	0.919663
theta[278]	1.34E+00	1.348233
theta[279]	-1.20E+00	-0.90982
theta[280]	-5.46E-01	-0.5994
theta[281]	1.01E+00	0.769157
theta[282]	7.92E-01	0.761537
theta[283]	8.49E-01	0.822147
theta[284]	-5.29E-01	-0.52806
theta[285]	9.33E-01	0.606393
theta[286]	1.39E+00	1.255227
theta[287]	-2.87E-02	-0.29342
theta[288]	-1.13E-01	-0.05641
theta[289]	-2.53E-01	-0.26144
theta[290]	1.41E+00	1.166403
theta[291]	8.57E-01	0.812427
theta[292]	1.93E-02	-0.1125
theta[293]	-9.73E-01	-0.83503
theta[294]	-5.67E-01	-0.44899
theta[295]	-2.01E+00	-1.80928
theta[296]	-3.50E-01	-0.50853
theta[297]	-1.90E+00	-1.35792
theta[298]	-1.56E+00	-1.28727
theta[299]	-1.33E+00	-1.12608
theta[300]	1.28E+00	1.29783
theta[301]	-4.82E-01	-0.28423
theta[302]	-1.60E+00	-0.52683
theta[303]	-4.05E-01	-0.35309
theta[304]	-1.56E+00	-1.42173

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[305]	1.20E-01	-0.00793
theta[306]	2.53E-01	0.047857
theta[307]	-1.44E+00	-0.93701
theta[308]	-1.45E-01	-0.15469
theta[309]	-1.76E+00	-1.38034
theta[310]	6.15E-01	0.516927
theta[311]	-1.84E+00	-1.55483
theta[312]	-9.01E-01	-0.63733
theta[313]	-7.68E-01	-0.77849
theta[314]	-7.62E-01	-0.73679
theta[315]	-3.70E-01	-0.37186
theta[316]	6.87E-01	0.74457
theta[317]	-5.13E-01	-0.14339
theta[318]	9.34E-01	0.89455
theta[319]	-1.94E+00	-1.52533
theta[320]	-1.62E+00	-1.08655
theta[321]	9.03E-01	0.935237
theta[322]	-1.61E+00	-1.39361
theta[323]	2.03E-01	0.365823
theta[324]	-4.47E-01	-0.51362
theta[325]	9.93E-01	0.92363
theta[326]	5.20E-01	0.522067
theta[327]	-2.19E+00	-1.6005
theta[328]	-2.01E-01	-0.48413
theta[329]	5.55E-01	0.525107
theta[330]	5.51E-02	0.040738
theta[331]	-7.09E-01	-0.71801
theta[332]	-9.53E-01	-1.05709
theta[333]	1.54E+00	1.5342
theta[334]	4.07E-01	0.391888
theta[335]	-6.66E-02	-0.11955
theta[336]	1.14E+00	1.238487
theta[337]	4.56E-01	0.622743
theta[338]	7.71E-01	0.610313
theta[339]	1.24E+00	1.363673
theta[340]	-6.52E-01	-0.68071
theta[341]	9.86E-01	0.849273
theta[342]	8.98E-01	0.827757
theta[343]	4.57E-01	0.286081

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[344]	-7.55E-02	-0.1298
theta[345]	5.23E-01	0.1387
theta[346]	-5.23E-01	-0.52791
theta[347]	6.59E-01	0.666213
theta[348]	-5.48E-01	-0.54762
theta[349]	-1.77E+00	-1.04037
theta[350]	-1.89E+00	-0.77388
theta[351]	-1.41E-01	-0.16162
theta[352]	-4.58E-01	-0.58402
theta[353]	8.36E-01	0.434289
theta[354]	-7.22E-01	-0.79283
theta[355]	1.55E-01	0.054154
theta[356]	-1.88E-02	-0.08514
theta[357]	-7.08E-01	-0.49058
theta[358]	-2.18E+00	-1.55239
theta[359]	1.92E+00	1.846867
theta[360]	2.14E+00	2.0632
theta[361]	1.99E-01	-0.11879
theta[362]	-1.61E+00	-1.36279
theta[363]	-3.49E-01	-0.44186
theta[364]	4.19E-01	0.2131
theta[365]	1.10E+00	1.04702
theta[366]	5.96E-01	0.175664
theta[367]	-5.22E-01	-0.43909
theta[368]	1.37E+00	1.17344
theta[369]	-6.48E-01	-0.26042
theta[370]	1.54E+00	1.249713
theta[371]	-8.21E-01	-0.74545
theta[372]	1.00E+00	0.99377
theta[373]	7.66E-01	0.336642
theta[374]	-3.16E-01	-0.46153
theta[375]	-1.05E+00	-0.4938
theta[376]	-4.62E-01	-0.68783
theta[377]	5.36E-01	0.349514
theta[378]	1.38E+00	1.05631
theta[379]	1.02E+00	0.846843
theta[380]	1.06E+00	0.952013
theta[381]	9.19E-01	0.850047
theta[382]	-1.54E-01	-0.18582

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
theta[383]	-1.53E+00	-1.1203
theta[384]	-2.14E-01	-0.21963
theta[385]	1.49E-02	0.055376
theta[386]	-8.49E-01	-0.54999
theta[387]	-1.08E+00	-1.17454
theta[388]	-8.61E-01	-0.60142
theta[389]	-2.51E+00	-0.72515
theta[390]	-3.57E-01	-0.38133
theta[391]	1.41E-01	0.017165
theta[392]	-1.06E-01	-0.02991
theta[393]	-4.30E-01	-0.32294
theta[394]	3.32E-01	0.369353
theta[395]	-4.32E-01	-0.32379
theta[396]	2.14E-01	0.156887
theta[397]	4.03E-01	0.365914
theta[398]	-4.92E-01	-0.52955
theta[399]	-1.43E-01	-0.0786
theta[400]	-6.11E-01	-0.57875
.....	.....	.....
xi[1]	2.496972	2.4926
xi[2]	0.56595	0.568263
xi[3]	0.346663	0.37227
xi[4]	0.071076	0.083745
xi[5]	0.274535	0.252993
xi[6]	0.166256	0.164
xi[7]	0.234422	0.221413
xi[8]	1.614631	1.603667
xi[9]	0.664716	0.668793
xi[10]	0.290775	0.308607
xi[11]	0.941116	0.918907

<b>NODE</b>	<b>BANGKITAN</b>	<b>RERATA ESTIMASI</b>
xi[12]	1.176308	1.1679
xi[13]	0.365791	0.350333
xi[14]	0.595344	0.58633
xi[15]	0.645208	0.6456
xi[16]	0.177893	0.170545
xi[17]	0.619647	0.59871
xi[18]	1.619861	1.617833
xi[19]	0.359594	0.358107
xi[20]	0.810306	0.82736
xi[21]	1.229459	1.23
xi[22]	1.374619	1.3827
xi[23]	0.563279	0.566963
xi[24]	1.9357	1.926267
xi[25]	0.575513	0.573847
xi[26]	0.475988	0.47881
xi[27]	0.090894	0.09443
xi[28]	1.471984	1.486867
xi[29]	1.979227	1.962467
xi[30]	0.403435	0.407053
xi[31]	0.569093	0.56061
xi[32]	1.044285	1.050467
xi[33]	0.910752	0.924517
xi[34]	1.526511	1.5253
xi[35]	0.403619	0.40123
xi[36]	0.724427	0.713957
xi[37]	0.993969	1.00621
xi[38]	0.570661	0.575443
xi[39]	0.811413	0.81656
xi[40]	0.290582	0.296177

**Lampiran 20. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=1200; m=10)**

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
a[1]	0.7808272	0.82747	tau[18]	0.0722868	0.33081
a[2]	1.8853341	1.8646	tau[19]	0.1869526	0.34054
a[3]	0.9996045	1.027127	tau[20]	0.5093037	0.534867
a[4]	0.5102082	0.52007	tau[21]	1.5331554	1.39272
a[5]	0.6015019	0.621953	tau[22]	0.1667185	0.278643
a[6]	0.7145032	0.741387	tau[23]	0.0855156	0.273633
a[7]	0.41522	0.42874	tau[24]	0.1444855	0.34538
a[8]	0.7041049	0.737397	tau[25]	0.4091351	0.487797
a[9]	0.4707969	0.492377	tau[26]	0.9629088	0.781803
a[10]	1.561728	1.586067	tau[27]	0.1963219	0.369653
b[1]	-2	-2.025067	tau[28]	0.40762	0.446303
b[2]	-1.6	-1.640667	tau[29]	0.3808066	0.498113
b[3]	-1.2	-1.232767	tau[30]	0.8117114	0.731663
b[4]	-0.8	-0.87788	tau[31]	1.1451189	1.020977
b[5]	-0.4	-0.479327	tau[32]	1.5612671	1.413267
b[6]	0.4	0.327107	tau[33]	1.5136917	1.32615
b[7]	0.8	0.714877	tau[34]	0.2795181	0.369847
b[8]	1.2	1.127893	tau[35]	0.8780289	0.82982
b[9]	1.6	1.47374	tau[36]	0.2785057	0.350943
b[10]	2	2.084467	tau[37]	0.3274665	0.587817
tau[1]	0.4533925	0.478713	tau[38]	0.8902389	0.889363
tau[2]	1.0152677	0.926307	tau[39]	0.886051	0.866177
tau[3]	0.1238366	0.428947	tau[40]	1.0285143	0.996377
tau[4]	0.0296691	0.235583	tau[41]	0.116828	0.306587
tau[5]	0.7381068	0.727467	tau[42]	0.1755908	0.367957
tau[6]	0.2126238	0.391403	tau[43]	0.4408174	0.473853
tau[7]	1.0644153	0.85601	tau[44]	0.5879876	0.636903
tau[8]	1.634649	1.51021	tau[45]	0.644418	0.614457
tau[9]	1.0045482	0.980607	tau[46]	0.3858938	0.54706
tau[10]	1.5747779	1.512967	tau[47]	0.5305102	0.46289
tau[11]	0.025065	0.32186	tau[48]	1.1453588	1.08286
tau[12]	1.6695604	1.53301	tau[49]	0.5425653	0.59316
tau[13]	1.2815213	1.22763	tau[50]	0.854396	0.87971
tau[14]	0.7783703	0.733237	tau[51]	0.5181201	0.492103
tau[15]	0.2847423	0.418593	tau[52]	0.3171783	0.351777
tau[16]	0.4067569	0.482977	tau[53]	0.4018075	0.433227
tau[17]	0.4356348	0.524613	tau[54]	0.1313761	0.319727

NODE	BANGKITAN	RERATA ESTIMASI
tau[55]	0.3153646	0.401653
tau[56]	0.0215448	0.239567
tau[57]	0.6579086	0.71701
tau[58]	0.595216	0.738053
tau[59]	0.589607	0.543427
tau[60]	1.076667	0.93727
tau[61]	0.9600887	1.025447
tau[62]	0.4296892	0.41661
tau[63]	0.7013755	0.597217
tau[64]	0.3666962	0.361447
tau[65]	0.760403	0.755827
tau[66]	0.6978254	0.618403
tau[67]	0.1719512	0.29657
tau[68]	0.341039	0.4769
tau[69]	1.908846	1.8178
tau[70]	0.9712694	0.900747
tau[71]	1.5227163	1.412013
tau[72]	0.628708	0.583603
tau[73]	1.7648792	1.619353
tau[74]	0.9529428	0.87625
tau[75]	1.0808226	1.06731
tau[76]	0.5648443	0.489893
tau[77]	0.0468752	0.247247
tau[78]	0.0225973	0.283327
tau[79]	0.8749816	0.854497
tau[80]	0.543136	0.536647
tau[81]	2.2674617	2.115167
tau[82]	1.4068629	1.276023
tau[83]	0.1560496	0.333453
tau[84]	1.2964758	1.11236
tau[85]	0.0893403	0.266953
tau[86]	0.6256474	0.726437
tau[87]	0.433386	0.421333
tau[88]	0.6601914	0.619813
tau[89]	0.465031	0.449857
tau[90]	0.6932067	0.640917
tau[91]	1.2597081	1.296527
tau[92]	1.8894266	1.656697
tau[93]	0.9751972	0.82438

NODE	BANGKITAN	RERATA ESTIMASI
tau[94]	1.6531654	1.615253
tau[95]	0.2716111	0.326697
tau[96]	1.1798465	1.198063
tau[97]	0.3129015	0.428207
tau[98]	1.0683698	0.925013
tau[99]	0.4854055	0.542097
tau[100]	0.4884659	0.50527
.....	.....	.....
tau[1101]	0.4987777	0.400951
tau[1102]	0.9755509	0.85315
tau[1103]	0.1116514	0.333543
tau[1104]	0.4183091	0.41203
tau[1105]	1.0166545	1.002653
tau[1106]	0.3971969	0.469007
tau[1107]	0.1739326	0.33914
tau[1108]	0.3086583	0.450437
tau[1109]	1.9923482	1.894967
tau[1110]	0.5860024	0.465737
tau[1111]	0.6215382	0.583453
tau[1112]	0.6820776	0.561537
tau[1113]	1.455289	1.37616
tau[1114]	0.265609	0.36461
tau[1115]	0.7719942	0.81383
tau[1116]	1.4922717	1.448947
tau[1117]	1.3729909	1.27883
tau[1118]	0.0358329	0.258473
tau[1119]	0.6614256	0.679977
tau[1120]	0.2402942	0.384333
tau[1121]	1.5899908	1.452857
tau[1122]	0.1833041	0.378133
tau[1123]	0.7326228	0.640363
tau[1124]	0.7849718	0.841977
tau[1125]	0.4883513	0.567607
tau[1126]	0.0918596	0.31727
tau[1127]	0.1597546	0.341303
tau[1128]	0.7947735	0.826623
tau[1129]	0.4259945	0.615213
tau[1130]	1.3449881	1.11758
tau[1131]	1.0496265	1.069887

NODE	BANGKITAN	RERATA ESTIMASI
tau[1132]	2.2581728	2.061933
tau[1133]	1.2300232	1.09182
tau[1134]	0.5866411	0.56087
tau[1135]	1.4593753	1.424403
tau[1136]	1.1456091	1.06628
tau[1137]	0.6723687	0.614397
tau[1138]	0.7402731	0.72552
tau[1139]	0.4910054	0.550607
tau[1140]	1.1858414	1.04249
tau[1141]	2.1634518	1.8484
tau[1142]	0.850161	0.82306
tau[1143]	1.6538749	1.470737
tau[1144]	2.0981774	1.9124
tau[1145]	0.4043051	0.432477
tau[1146]	0.0133306	0.312487
tau[1147]	1.7511421	1.575733
tau[1148]	2.2175468	2.039167
tau[1149]	0.7639025	0.84123
tau[1150]	0.7838694	0.644193
tau[1151]	1.096815	1.026097
tau[1152]	0.2468612	0.404203
tau[1153]	0.9006938	0.85627
tau[1154]	0.2676939	0.369407
tau[1155]	0.7585621	0.877677
tau[1156]	0.3933355	0.47845
tau[1157]	0.2344392	0.279423
tau[1158]	0.1261624	0.26886
tau[1159]	0.6965371	0.682197
tau[1160]	2.3069535	2.0827
tau[1161]	2.171293	2.004967
tau[1162]	0.0818418	0.26973
tau[1163]	0.6531494	0.76729
tau[1164]	0.3761136	0.468687
tau[1165]	0.1990161	0.381563
tau[1166]	0.5871032	0.59589
tau[1167]	0.9579155	0.781183
tau[1168]	0.1973526	0.302213
tau[1169]	0.4051148	0.376247
tau[1170]	1.4931152	1.407217

NODE	BANGKITAN	RERATA ESTIMASI
tau[1171]	0.4411252	0.434107
tau[1172]	0.1287839	0.355827
tau[1173]	0.8130141	0.70444
tau[1174]	0.3267222	0.465983
tau[1175]	0.593428	0.577117
tau[1176]	0.4919412	0.632863
tau[1177]	0.3939269	0.47033
tau[1178]	0.1246871	0.338227
tau[1179]	1.5769114	1.473217
tau[1180]	0.1735305	0.31084
tau[1181]	0.8478298	0.872693
tau[1182]	1.7153359	1.462247
tau[1183]	0.698851	0.710593
tau[1184]	1.0349123	0.97202
tau[1185]	0.7489878	0.796123
tau[1186]	0.3815429	0.535317
tau[1187]	0.2499324	0.374063
tau[1188]	1.1307787	0.91689
tau[1189]	0.0419742	0.230587
tau[1190]	0.2434444	0.338433
tau[1191]	0.0780058	0.2671
tau[1192]	0.2426797	0.4294
tau[1193]	0.062494	0.280883
tau[1194]	1.3420753	1.253213
tau[1195]	0.8375513	0.618317
tau[1196]	1.095908	1.033143
tau[1197]	0.4238177	0.384097
tau[1198]	0.540095	0.48705
tau[1199]	0.5168746	0.630803
tau[1200]	0.7251696	0.67585
theta[1]	1.2763132	0.717735
theta[2]	0.2501413	0.124217
theta[3]	-2.984251	-1.6001
theta[4]	1.586442	1.23015
theta[5]	0.9470133	0.628447
theta[6]	-0.904579	-0.561028
theta[7]	0.3921191	0.020311
theta[8]	0.165468	-0.187438
theta[9]	0.0392657	0.060259

NODE	BANGKITAN	RERATA ESTIMASI
theta[10]	-0.375598	-0.3855
theta[11]	-1.436254	-0.841685
theta[12]	-0.035282	-0.286984
theta[13]	-1.586539	-0.821003
theta[14]	0.6565049	0.594563
theta[15]	-1.431679	-0.940733
theta[16]	0.39626	0.330244
theta[17]	-0.494025	-0.398924
theta[18]	-0.970877	-0.517743
theta[19]	-0.731126	-0.340679
theta[20]	0.3268849	0.347419
theta[21]	0.3313526	-0.029122
theta[22]	0.9756519	0.680273
theta[23]	1.7931587	1.154253
theta[24]	-0.108507	0.210583
theta[25]	0.1826199	0.137849
theta[26]	0.5440453	0.257947
theta[27]	-0.59905	-0.214899
theta[28]	0.2112264	0.186783
theta[29]	-1.049354	-0.785932
theta[30]	0.4785621	0.359708
theta[31]	0.5416554	0.318047
theta[32]	-1.123862	-0.75985
theta[33]	1.0900589	0.560905
theta[34]	0.5852745	0.499169
theta[35]	-0.379681	-0.441216
theta[36]	0.4719986	0.500122
theta[37]	-2.497351	-1.452677
theta[38]	-0.902863	-0.831373
theta[39]	0.4507994	0.461378
theta[40]	-0.362006	-0.60241
theta[41]	-0.010564	0.023603
theta[42]	-1.58637	-1.114502
theta[43]	1.9597969	1.053281
theta[44]	-0.617189	-0.615734
theta[45]	1.4922362	0.988143
theta[46]	-0.365973	-0.009518
theta[47]	0.9170602	0.605552
theta[48]	-0.135861	-0.483637

NODE	BANGKITAN	RERATA ESTIMASI
theta[49]	0.0290069	0.150233
theta[50]	-0.202515	-0.148974
theta[51]	-0.358007	-0.235407
theta[52]	2.8240932	1.964137
theta[53]	-0.489559	-0.470249
theta[54]	0.7811959	0.614825
theta[55]	0.946985	0.657827
theta[56]	0.5223075	0.400515
theta[57]	-1.428471	-1.184733
theta[58]	-2.037886	-1.234913
theta[59]	0.2033023	0.150522
theta[60]	1.05575	0.6997
theta[61]	-0.830328	-0.751316
theta[62]	0.4900785	0.297873
theta[63]	1.1416381	0.699463
theta[64]	2.3030328	1.171507
theta[65]	-1.103755	-0.806252
theta[66]	2.0921302	1.179397
theta[67]	0.280109	0.247812
theta[68]	-0.917184	-0.535487
theta[69]	-0.133412	-0.228007
theta[70]	-0.5148	-0.496999
theta[71]	1.3108583	0.85384
theta[72]	0.936916	0.672177
theta[73]	0.4234278	-0.119655
theta[74]	0.3934404	0.286287
theta[75]	-0.746151	-0.689971
theta[76]	1.1467305	0.6169
theta[77]	1.1388378	0.721931
theta[78]	-0.209665	0.001533
theta[79]	-0.138122	-0.245078
theta[80]	1.8565517	1.143677
theta[81]	-0.229184	-0.203189
theta[82]	-0.892864	-0.80503
theta[83]	0.3829566	0.394509
theta[84]	1.9628923	1.00241
theta[85]	0.7313348	0.608707
theta[86]	-0.358982	-0.22126
theta[87]	0.6094094	0.457738

NODE	BANGKITAN	RERATA ESTIMASI
theta[88]	0.3114601	0.233231
theta[89]	1.1912742	0.66006
theta[90]	-0.212205	-0.317519
theta[91]	-1.220503	-0.834263
theta[92]	1.5342526	0.613603
theta[93]	0.3123103	0.132666
theta[94]	-0.762104	-0.469961
theta[95]	-0.048247	0.077682
theta[96]	-0.887088	-0.70554
theta[97]	-1.273253	-0.88696
theta[98]	0.0532307	0.002137
theta[99]	-0.616368	-0.430179
theta[100]	-0.673481	-0.625475
.....	.....	.....
theta[1101]	1.3501464	0.686843
theta[1102]	0.3450052	0.22051
theta[1103]	-0.719033	-0.232131
theta[1104]	-0.087835	0.02757
theta[1105]	-0.148429	-0.196867
theta[1106]	-0.344998	-0.204958
theta[1107]	-0.881446	-0.64967
theta[1108]	-0.150988	-0.011751
theta[1109]	0.5853571	0.052938
theta[1110]	0.3740956	0.245533
theta[1111]	2.2141918	1.30892
theta[1112]	1.1098417	0.695597
theta[1113]	0.5278227	0.419392
theta[1114]	0.3134728	0.24581
theta[1115]	-1.264955	-0.916184
theta[1116]	-1.433124	-0.629337
theta[1117]	-1.797836	-0.877187
theta[1118]	0.5065433	0.43853
theta[1119]	0.2661403	0.292896
theta[1120]	-0.712298	-0.523748
theta[1121]	-0.095689	-0.340684
theta[1122]	-0.1636	0.046731
theta[1123]	1.1476969	0.507175
theta[1124]	-0.901958	-0.790213
theta[1125]	-0.548344	-0.258316

NODE	BANGKITAN	RERATA ESTIMASI
theta[1126]	0.8946396	0.726443
theta[1127]	0.1262691	0.175104
theta[1128]	-0.976222	-0.781685
theta[1129]	-1.272411	-0.898834
theta[1130]	1.6219328	0.806378
theta[1131]	0.0077873	-0.031707
theta[1132]	0.1981783	-0.116838
theta[1133]	1.1781936	0.650257
theta[1134]	1.0688575	0.638973
theta[1135]	0.1425688	-0.123062
theta[1136]	-0.117704	-0.302845
theta[1137]	-0.215106	-0.10176
theta[1138]	-0.284367	-0.211163
theta[1139]	-1.157786	-0.842459
theta[1140]	0.7085061	0.477747
theta[1141]	1.8612486	0.782261
theta[1142]	0.3460366	0.326904
theta[1143]	1.2178744	0.625106
theta[1144]	0.5266012	-0.107325
theta[1145]	1.0143924	0.60486
theta[1146]	-0.594292	-0.188152
theta[1147]	0.1242684	-0.27911
theta[1148]	0.6098751	0.012482
theta[1149]	-2.011656	-1.101557
theta[1150]	1.885797	0.857167
theta[1151]	-0.734738	-0.77177
theta[1152]	-1.696175	-1.32633
theta[1153]	-1.881168	-1.099227
theta[1154]	0.5903603	0.325025
theta[1155]	-1.919794	-1.13856
theta[1156]	-0.9489	-0.709553
theta[1157]	1.0902384	0.687035
theta[1158]	0.5650893	0.524243
theta[1159]	1.2667285	0.898107
theta[1160]	-0.747019	-0.31313
theta[1161]	0.1821464	-0.15345
theta[1162]	1.4693191	0.945613
theta[1163]	-1.426185	-0.977553
theta[1164]	-0.366494	-0.005358

NODE	BANGKITAN	RERATA ESTIMASI
theta[1165]	-0.752299	-0.425304
theta[1166]	0.3668342	0.256069
theta[1167]	1.0626652	0.610943
theta[1168]	0.4164682	0.388724
theta[1169]	0.7607569	0.345546
theta[1170]	-0.620481	-0.521077
theta[1171]	1.0060425	0.481102
theta[1172]	-0.916005	-0.51153
theta[1173]	1.7883156	1.022733
theta[1174]	-0.640379	-0.434389
theta[1175]	1.0192355	0.620851
theta[1176]	-1.314839	-1.025238
theta[1177]	-1.04746	-0.827443
theta[1178]	-1.47157	-1.06622
theta[1179]	0.9086254	0.498463
theta[1180]	0.8264569	0.618977
theta[1181]	-1.278045	-0.99379
theta[1182]	1.5397853	0.722343
theta[1183]	-0.340305	-0.181229
theta[1184]	-0.049758	-0.165141
theta[1185]	-1.078383	-0.739701
theta[1186]	-0.953972	-0.642222
theta[1187]	-0.76596	-0.442982

NODE	BANGKITAN	RERATA ESTIMASI
theta[1188]	2.0271967	1.285687
theta[1189]	0.1676952	0.244726
theta[1190]	1.3820274	0.917777
theta[1191]	0.9655996	0.693032
theta[1192]	-0.91044	-0.398293
theta[1193]	0.5358769	0.516318
theta[1194]	-1.082413	-0.841272
theta[1195]	2.4573326	1.372103
theta[1196]	0.830717	0.401693
theta[1197]	2.2191862	1.19461
theta[1198]	0.6771497	0.359053
theta[1199]	-1.366978	-1.12062
theta[1200]	1.535394	0.839338
xi[1]	1.6405089	1.637467
xi[2]	1.8845878	1.898467
xi[3]	1.2375411	1.246833
xi[4]	0.1110706	0.123866
xi[5]	1.6288185	1.633033
xi[6]	0.3870957	0.390653
xi[7]	1.5364226	1.536367
xi[8]	0.853944	0.86598
xi[9]	0.6430999	0.648627
xi[10]	0.7263246	0.743

**Lampiran 21. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=1200; m=20)**

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
a[1]	0.766631	0.775147	b[18]	1.6	1.464767
a[2]	0.589993	0.58593	b[19]	1.8	1.6542
a[3]	0.961274	0.97725	b[20]	2	1.7355
a[4]	0.730853	0.730683	tau[1]	0.381548	0.425727
a[5]	1.459399	1.449867	tau[2]	1.295356	1.28623
a[6]	1.303265	1.3115	tau[3]	1.671883	1.638767
a[7]	1.201483	1.2061	tau[4]	1.509992	1.344813
a[8]	0.693185	0.699803	tau[5]	1.228053	1.220707
a[9]	1.53669	1.524567	tau[6]	0.563386	0.597957
a[10]	1.479504	1.5167	tau[7]	0.293396	0.325283
a[11]	1.339817	1.356767	tau[8]	1.516728	1.4963
a[12]	0.511067	0.4981	tau[9]	1.51333	1.4987
a[13]	0.483049	0.487817	tau[10]	1.049855	1.01655
a[14]	1.07553	1.129177	tau[11]	1.008544	0.966903
a[15]	0.452804	0.45083	tau[12]	2.229462	2.147167
a[16]	1.124749	1.147137	tau[13]	0.478152	0.480817
a[17]	0.747436	0.79751	tau[14]	1.653371	1.586133
a[18]	0.449318	0.473867	tau[15]	0.73743	0.64458
a[19]	0.547749	0.586363	tau[16]	0.139133	0.236719
a[20]	0.638374	0.721163	tau[17]	1.037869	1.006563
b[1]	-2	-2.039067	tau[18]	0.969772	0.842273
b[2]	-1.8	-1.8138	tau[19]	1.376131	1.380233
b[3]	-1.6	-1.637267	tau[20]	1.481728	1.471423
b[4]	-1.4	-1.4283	tau[21]	0.092559	0.197855
b[5]	-1.2	-1.2518	tau[22]	1.88504	1.791367
b[6]	-1	-1.053927	tau[23]	1.354485	1.353267
b[7]	-0.8	-0.85077	tau[24]	0.194562	0.296353
b[8]	-0.6	-0.623337	tau[25]	0.473314	0.59141
b[9]	-0.4	-0.435717	tau[26]	1.068507	0.947813
b[10]	-0.2	-0.222703	tau[27]	0.598075	0.57125
b[11]	0.2	0.211257	tau[28]	0.792367	0.768063
b[12]	0.4	0.391973	tau[29]	0.801653	0.823957
b[13]	0.6	0.592027	tau[30]	0.718837	0.656283
b[14]	0.8	0.759533	tau[31]	1.66227	1.594067
b[15]	1	0.94567	tau[32]	0.786632	0.762003
b[16]	1.2	1.178	tau[33]	0.172437	0.25606
b[17]	1.4	1.313103	tau[34]	0.175391	0.272557

NODE	BANGKITAN	RERATA ESTIMASI
tau[35]	1.013155	0.976707
tau[36]	0.08485	0.283193
tau[37]	1.944051	1.829633
tau[38]	0.991307	0.935153
tau[39]	0.338276	0.34517
tau[40]	0.71878	0.780217
tau[41]	0.33655	0.360335
tau[42]	0.739202	0.74857
tau[43]	1.699049	1.659067
tau[44]	0.84286	0.763327
tau[45]	0.153833	0.21903
tau[46]	0.200871	0.316561
tau[47]	1.407543	1.337933
tau[48]	2.17778	2.0617
tau[49]	0.220911	0.283353
tau[50]	0.063422	0.195539
tau[51]	0.630285	0.58393
tau[52]	1.589645	1.4454
tau[53]	0.132913	0.31917
tau[54]	0.466438	0.448383
tau[55]	0.181901	0.298013
tau[56]	0.322778	0.340427
tau[57]	0.446048	0.465757
tau[58]	0.867523	0.841193
tau[59]	0.525809	0.56836
tau[60]	0.199119	0.298262
tau[61]	0.188262	0.282884
tau[62]	2.613239	2.467467
tau[63]	0.092387	0.196248
tau[64]	0.497382	0.560777
tau[65]	0.51773	0.53191
tau[66]	0.536582	0.591913
tau[67]	1.895266	1.841867
tau[68]	0.150562	0.311909
tau[69]	1.405775	1.27095
tau[70]	0.720279	0.662467
tau[71]	1.387742	1.341657
tau[72]	1.043938	1.11516
tau[73]	0.050126	0.200203

NODE	BANGKITAN	RERATA ESTIMASI
tau[74]	0.95777	0.888043
tau[75]	1.01817	0.968683
tau[76]	0.642658	0.597893
tau[77]	0.541919	0.557153
tau[78]	0.224068	0.265693
tau[79]	0.80357	0.810767
tau[80]	1.297009	1.20485
tau[81]	0.131331	0.236485
tau[82]	0.68723	0.715073
tau[83]	1.182775	1.113463
tau[84]	1.434943	1.373157
tau[85]	1.474586	1.28467
tau[86]	1.202012	1.076953
tau[87]	0.186307	0.255767
tau[88]	0.106208	0.218246
tau[89]	1.153529	1.14191
tau[90]	0.096315	0.247671
tau[91]	0.402974	0.446153
tau[92]	1.343654	1.273483
tau[93]	0.368676	0.407867
tau[94]	0.182634	0.247272
tau[95]	1.030716	0.94379
tau[96]	1.294834	1.23443
tau[97]	0.545676	0.54227
tau[98]	1.565633	1.547623
tau[99]	0.597289	0.56235
tau[100]	1.224673	1.17649
.....	.....	.....
tau[1101]	0.689007	0.65706
tau[1102]	1.699937	1.5895
tau[1103]	0.515028	0.459983
tau[1104]	0.068951	0.227787
tau[1105]	0.382915	0.43734
tau[1106]	2.368816	2.2694
tau[1107]	1.433575	1.409
tau[1108]	1.52566	1.493867
tau[1109]	1.183765	1.138817
tau[1110]	1.413088	1.323403
tau[1111]	1.62441	1.561

NODE	BANGKITAN	RERATA ESTIMASI
tau[1112]	0.688118	0.627733
tau[1113]	1.121095	1.074413
tau[1114]	1.701974	1.611867
tau[1115]	1.576616	1.517233
tau[1116]	0.610544	0.616283
tau[1117]	0.63994	0.581723
tau[1118]	0.161831	0.303363
tau[1119]	0.091233	0.207203
tau[1120]	0.280073	0.32299
tau[1121]	0.972666	0.888053
tau[1122]	0.568266	0.605957
tau[1123]	0.94281	0.982693
tau[1124]	0.699388	0.759503
tau[1125]	0.190351	0.315933
tau[1126]	0.907022	0.79033
tau[1127]	1.097635	1.02839
tau[1128]	0.409459	0.42816
tau[1129]	0.087622	0.25829
tau[1130]	0.101961	0.222419
tau[1131]	0.411812	0.380413
tau[1132]	0.049212	0.177277
tau[1133]	1.722368	1.6309
tau[1134]	0.381465	0.450617
tau[1135]	0.580572	0.546057
tau[1136]	0.898509	0.870517
tau[1137]	1.788602	1.763533
tau[1138]	0.10117	0.228562
tau[1139]	1.494984	1.459633
tau[1140]	0.039099	0.227077
tau[1141]	0.976934	0.966477
tau[1142]	1.057412	1.05927
tau[1143]	0.158768	0.2378
tau[1144]	0.040647	0.194683
tau[1145]	1.434691	1.356943
tau[1146]	0.215332	0.274068
tau[1147]	0.329449	0.352487
tau[1148]	0.191857	0.220033
tau[1149]	0.600109	0.556619
tau[1150]	0.509891	0.43939

NODE	BANGKITAN	RERATA ESTIMASI
tau[1151]	1.18939	1.214093
tau[1152]	0.10165	0.317962
tau[1153]	0.644878	0.654357
tau[1154]	0.081165	0.199813
tau[1155]	0.176875	0.31024
tau[1156]	0.29933	0.454773
tau[1157]	0.301634	0.369717
tau[1158]	2.350722	2.313667
tau[1159]	0.741834	0.7618
tau[1160]	0.039559	0.190454
tau[1161]	0.350438	0.41107
tau[1162]	1.251819	1.251067
tau[1163]	2.063795	2.0444
tau[1164]	1.132896	1.067457
tau[1165]	2.200595	2.107667
tau[1166]	1.146864	1.080253
tau[1167]	0.680581	0.71292
tau[1168]	0.409038	0.475917
tau[1169]	0.595762	0.564407
tau[1170]	1.104632	1.0367
tau[1171]	1.493108	1.397453
tau[1172]	0.456385	0.49215
tau[1173]	1.071017	0.96203
tau[1174]	1.172494	1.14525
tau[1175]	0.575163	0.569293
tau[1176]	0.168921	0.247799
tau[1177]	1.051564	0.950887
tau[1178]	0.424488	0.488467
tau[1179]	0.392931	0.395873
tau[1180]	1.68718	1.523033
tau[1181]	1.534724	1.374667
tau[1182]	1.531901	1.493433
tau[1183]	0.505608	0.488637
tau[1184]	0.716655	0.638647
tau[1185]	0.105005	0.225743
tau[1186]	1.296385	1.302187
tau[1187]	0.805673	0.743777
tau[1188]	1.304038	1.19201
tau[1189]	0.588936	0.60523

NODE	BANGKITAN	RERATA ESTIMASI
tau[1190]	0.286541	0.31875
tau[1191]	0.43726	0.41357
tau[1192]	0.117008	0.272987
tau[1193]	0.389489	0.374607
tau[1194]	0.656532	0.642137
tau[1195]	0.793266	0.778097
tau[1196]	1.60861	1.506467
tau[1197]	0.45692	0.461767
tau[1198]	2.419167	2.3235
tau[1199]	2.483758	2.3678
tau[1200]	1.163502	1.16458
theta[1]	-0.597635	-0.587488
theta[2]	-2.393487	-0.93516
theta[3]	0.576704	0.107423
theta[4]	0.952182	0.592799
theta[5]	0.20997	0.124905
theta[6]	-1.519807	-1.148077
theta[7]	0.901392	0.767087
theta[8]	-1.493154	-0.793263
theta[9]	-0.317136	-0.516964
theta[10]	-0.109339	-0.370878
theta[11]	-1.401186	-1.018067
theta[12]	1.200406	0.412256
theta[13]	-0.826801	-0.767057
theta[14]	0.007136	-0.279583
theta[15]	1.878632	1.442963
theta[16]	0.090339	-0.005953
theta[17]	-0.2325	-0.329432
theta[18]	1.63051	1.372913
theta[19]	-0.282653	-0.410258
theta[20]	0.023625	-0.220458
theta[21]	0.915698	0.91836
theta[22]	1.562252	0.979097
theta[23]	0.715547	0.531326
theta[24]	-1.121251	-1.141313
theta[25]	-1.662452	-1.262987
theta[26]	1.607009	1.23877
theta[27]	-0.100191	-0.337918
theta[28]	-0.602163	-0.702144

NODE	BANGKITAN	RERATA ESTIMASI
theta[29]	-0.611532	-0.752087
theta[30]	0.530175	0.333551
theta[31]	0.213267	-0.181633
theta[32]	-0.383956	-0.512034
theta[33]	0.710838	0.689269
theta[34]	0.053883	0.035747
theta[35]	0.106547	-0.040112
theta[36]	-1.064195	-0.935915
theta[37]	1.358916	0.729875
theta[38]	0.263186	-0.011097
theta[39]	0.589513	0.490703
theta[40]	-1.107137	-0.874353
theta[41]	0.390572	0.274367
theta[42]	-0.3583	-0.452378
theta[43]	0.277444	0.116488
theta[44]	0.599163	0.364496
theta[45]	0.992345	1.034337
theta[46]	-0.16704	-0.141578
theta[47]	0.591031	0.112113
theta[48]	-1.024851	-0.333467
theta[49]	-0.540225	-0.507287
theta[50]	1.125559	1.065293
theta[51]	0.122917	0.017338
theta[52]	0.962579	0.543006
theta[53]	-1.152209	-0.934437
theta[54]	0.152777	-0.024992
theta[55]	-0.117606	-0.05719
theta[56]	-0.821785	-0.758023
theta[57]	0.300446	0.319619
theta[58]	-1.071733	-0.934723
theta[59]	-0.259362	-0.208085
theta[60]	-0.510122	-0.479441
theta[61]	-0.264582	-0.198312
theta[62]	1.41164	0.349737
theta[63]	2.83919	2.139
theta[64]	-1.291888	-1.025039
theta[65]	-0.406117	-0.353448
theta[66]	-0.126957	-0.159674
theta[67]	0.021459	-0.284933

NODE	BANGKITAN	RERATA ESTIMASI
theta[68]	-1.056324	-0.952343
theta[69]	1.113975	0.831367
theta[70]	0.251363	0.004426
theta[71]	0.315607	0.017315
theta[72]	-1.22741	-0.943592
theta[73]	-0.31138	-0.17012
theta[74]	1.011642	0.689694
theta[75]	-0.11238	-0.227213
theta[76]	0.823708	0.641634
theta[77]	-0.773792	-0.722697
theta[78]	1.331073	1.196897
theta[79]	0.151112	0.087856
theta[80]	-1.137072	-0.920977
theta[81]	-0.577315	-0.44356
theta[82]	-0.211406	-0.318258
theta[83]	-0.495173	-0.748792
theta[84]	0.060217	-0.369012
theta[85]	1.613348	1.139397
theta[86]	1.062014	0.728243
theta[87]	-0.899693	-0.580593
theta[88]	1.274758	1.195
theta[89]	-0.171904	-0.360991
theta[90]	-1.577316	-1.231733
theta[91]	-0.157026	-0.124163
theta[92]	-0.309448	-0.330842
theta[93]	0.345334	0.322622
theta[94]	1.955393	1.71107
theta[95]	1.156213	0.911887
theta[96]	-0.05228	-0.309664
theta[97]	-0.984607	-0.952707
theta[98]	0.459026	0.158152
theta[99]	0.988248	0.674916
theta[100]	-1.312188	-0.81146
.....	.....	.....
theta[1101]	-0.648336	-0.695387
theta[1102]	0.990044	0.503952
theta[1103]	1.19789	0.97473
theta[1104]	0.240486	0.22933
theta[1105]	-0.259251	-0.294996

NODE	BANGKITAN	RERATA ESTIMASI
theta[1106]	1.84449	0.451464
theta[1107]	-0.403332	-0.461873
theta[1108]	-1.157553	-0.664807
theta[1109]	0.852348	0.441749
theta[1110]	0.212678	-0.123033
theta[1111]	-0.70403	-0.499435
theta[1112]	0.025103	-0.032747
theta[1113]	-0.941656	-0.843927
theta[1114]	-0.165462	-0.424377
theta[1115]	-0.267838	-0.398909
theta[1116]	0.419666	0.319828
theta[1117]	0.509614	0.290441
theta[1118]	0.54208	0.547469
theta[1119]	1.455071	1.441147
theta[1120]	-0.716594	-0.604962
theta[1121]	0.525833	0.416091
theta[1122]	-0.421232	-0.393022
theta[1123]	-0.91426	-0.753037
theta[1124]	-2.185442	-1.329857
theta[1125]	-0.628331	-0.491076
theta[1126]	0.963681	0.478463
theta[1127]	0.846642	0.61876
theta[1128]	0.05836	0.022501
theta[1129]	0.062405	0.217395
theta[1130]	0.165366	0.239636
theta[1131]	1.16568	0.972487
theta[1132]	1.193958	1.062877
theta[1133]	-0.336476	-0.491011
theta[1134]	-0.553195	-0.444429
theta[1135]	0.156565	0.086712
theta[1136]	0.30412	0.186457
theta[1137]	0.557889	-0.015975
theta[1138]	-1.618916	-1.22442
theta[1139]	-0.188908	-0.514525
theta[1140]	-0.329709	-0.108508
theta[1141]	-0.032003	-0.26317
theta[1142]	-0.653993	-0.580572
theta[1143]	0.107915	0.014305
theta[1144]	1.298116	1.216227

NODE	BANGKITAN	RERATA ESTIMASI
theta[1145]	0.934789	0.492979
theta[1146]	0.50829	0.489893
theta[1147]	1.38858	1.253327
theta[1148]	1.136833	0.88482
theta[1149]	-1.084107	-1.006493
theta[1150]	1.212736	1.05111
theta[1151]	0.397662	0.133082
theta[1152]	-2.200614	-1.595767
theta[1153]	-0.450242	-0.404611
theta[1154]	0.531208	0.587507
theta[1155]	-0.348244	-0.250754
theta[1156]	-1.732429	-1.314547
theta[1157]	-0.975156	-0.885078
theta[1158]	-1.778256	-0.257346
theta[1159]	-0.42665	-0.419764
theta[1160]	-0.212957	-0.021161
theta[1161]	0.016369	0.089462
theta[1162]	-0.061805	-0.282997
theta[1163]	-0.758155	-0.339428
theta[1164]	-0.385373	-0.51146
theta[1165]	-1.054798	-0.35058
theta[1166]	0.926454	0.641812
theta[1167]	-0.715394	-0.718795
theta[1168]	-0.501121	-0.410154
theta[1169]	0.425589	0.339887
theta[1170]	0.462069	0.14332
theta[1171]	-0.272391	-0.448797
theta[1172]	-0.161137	-0.114034
theta[1173]	1.524613	1.174117
theta[1174]	-0.110464	-0.22708
theta[1175]	-0.465325	-0.487966
theta[1176]	0.574727	0.469345
theta[1177]	-0.342391	-0.605465
theta[1178]	-0.06684	-0.114301
theta[1179]	-0.503095	-0.48279
theta[1180]	1.184867	0.628593
theta[1181]	1.484259	1.022317
theta[1182]	-1.466945	-0.77325
theta[1183]	0.648826	0.479183

NODE	BANGKITAN	RERATA ESTIMASI
theta[1184]	1.193933	0.983121
theta[1185]	1.656017	1.490343
theta[1186]	-0.223284	-0.50147
theta[1187]	1.449292	1.093223
theta[1188]	1.057254	0.768862
theta[1189]	-0.236945	-0.311534
theta[1190]	0.04892	0.04369
theta[1191]	0.266323	0.109248
theta[1192]	-0.209018	-0.008274
theta[1193]	-0.475386	-0.5399
theta[1194]	0.07594	-0.150734
theta[1195]	-0.333482	-0.55162
theta[1196]	1.659069	1.28429
theta[1197]	-1.359383	-1.289507
theta[1198]	-0.393288	-0.178164
theta[1199]	1.033322	-0.044768
theta[1200]	-0.010968	-0.220357
xi[1]	1.161445	1.159267
xi[2]	1.344779	1.3558
xi[3]	0.058504	0.073562
xi[4]	0.200503	0.198893
xi[5]	1.293318	1.293533
xi[6]	2.141999	2.140567
xi[7]	2.717017	2.710433
xi[8]	1.053168	1.058333
xi[9]	1.468475	1.4674
xi[10]	0.481639	0.48864
xi[11]	0.275745	0.276397
xi[12]	1.024223	1.026073
xi[13]	0.347847	0.351927
xi[14]	0.110887	0.119422
xi[15]	0.356031	0.356147
xi[16]	2.35878	2.353067
xi[17]	0.311475	0.314567
xi[18]	0.275393	0.282703
xi[19]	1.532059	1.533933
xi[20]	0.042432	0.058461

**Lampiran 22. Hasil data bangkitan dan rata-rata estimasi parameter 30 kali Replikasi (n=1200; m=40)**

NODE	BANGKITAN	RERATA ESTIMASI	NODE	BANGKITAN	RERATA ESTIMASI
a[1]	0.498518	0.502153	a[38]	0.950716	1.01783
a[2]	0.989378	0.979073	a[39]	1.379043	1.445043
a[3]	1.747619	1.7637	a[40]	0.680731	0.734253
a[4]	1.209024	1.201733	b[1]	-2	-1.9927
a[5]	0.693941	0.69648	b[2]	-1.9	-1.903567
a[6]	0.55461	0.54151	b[3]	-1.8	-1.795133
a[7]	0.885083	0.88513	b[4]	-1.7	-1.7034
a[8]	0.596149	0.595877	b[5]	-1.6	-1.5735
a[9]	0.93271	0.93052	b[6]	-1.5	-1.463533
a[10]	0.724358	0.72038	b[7]	-1.4	-1.427
a[11]	1.152037	1.124767	b[8]	-1.3	-1.2835
a[12]	0.456312	0.45846	b[9]	-1.2	-1.186533
a[13]	0.52703	0.51596	b[10]	-1.1	-1.090633
a[14]	0.513468	0.52146	b[11]	-1	-0.997467
a[15]	1.773282	1.762233	b[12]	-0.9	-0.87991
a[16]	1.553882	1.571433	b[13]	-0.8	-0.77733
a[17]	1.104059	1.09826	b[14]	-0.7	-0.721207
a[18]	0.847938	0.852943	b[15]	-0.6	-0.609663
a[19]	1.966501	1.961033	b[16]	-0.5	-0.485237
a[20]	0.732099	0.7176	b[17]	-0.4	-0.392193
a[21]	0.734633	0.75636	b[18]	-0.3	-0.319343
a[22]	1.260703	1.3118	b[19]	-0.2	-0.211537
a[23]	0.542993	0.554737	b[20]	-0.1	-0.091217
a[24]	0.596325	0.616027	b[21]	0.1	0.068583
a[25]	1.566512	1.6574	b[22]	0.2	0.192285
a[26]	0.735368	0.7625	b[23]	0.3	0.29329
a[27]	0.424486	0.43486	b[24]	0.4	0.38854
a[28]	0.96034	1.043483	b[25]	0.5	0.496783
a[29]	0.953559	0.963973	b[26]	0.6	0.59901
a[30]	0.673916	0.693863	b[27]	0.7	0.698317
a[31]	1.095121	1.146397	b[28]	0.8	0.75355
a[32]	0.949187	0.964837	b[29]	0.9	0.902213
a[33]	0.588963	0.601097	b[30]	1	1.013277
a[34]	0.88898	0.90315	b[31]	1.1	1.062457
a[35]	0.584503	0.60379	b[32]	1.2	1.211547
a[36]	1.179061	1.18603	b[33]	1.3	1.285763
a[37]	1.320797	1.3933	b[34]	1.4	1.416433

NODE	BANGKITAN	RERATA ESTIMASI
b[35]	1.5	1.4341
b[36]	1.6	1.5984
b[37]	1.7	1.672933
b[38]	1.8	1.686733
b[39]	1.9	1.854067
b[40]	2	1.827467
tau[1]	1.227674	1.144297
tau[2]	1.069514	1.046383
tau[3]	0.210267	0.262714
tau[4]	1.884911	1.822233
tau[5]	0.038072	0.155362
tau[6]	0.362635	0.362485
tau[7]	1.685389	1.5852
tau[8]	1.150849	1.071437
tau[9]	0.562144	0.531343
tau[10]	0.219352	0.284173
tau[11]	1.814365	1.7796
tau[12]	0.108192	0.225506
tau[13]	2.159614	2.133033
tau[14]	0.400653	0.39596
tau[15]	0.793749	0.786873
tau[16]	1.02429	0.958427
tau[17]	0.203697	0.232911
tau[18]	0.958439	0.94132
tau[19]	0.565518	0.583807
tau[20]	0.058052	0.170933
tau[21]	0.415138	0.386263
tau[22]	1.598465	1.567137
tau[23]	1.215267	1.16183
tau[24]	1.111908	1.03526
tau[25]	0.346363	0.291396
tau[26]	0.173174	0.177285
tau[27]	0.3727	0.380067
tau[28]	0.839165	0.796987
tau[29]	0.665559	0.649313
tau[30]	1.673509	1.660467
tau[31]	0.475229	0.433517
tau[32]	0.147401	0.201655
tau[33]	0.735809	0.72562

NODE	BANGKITAN	RERATA ESTIMASI
tau[34]	0.370417	0.384816
tau[35]	0.347656	0.32832
tau[36]	1.317521	1.307533
tau[37]	0.322562	0.29421
tau[38]	2.177381	2.105567
tau[39]	0.96194	0.88984
tau[40]	0.963354	0.900367
tau[41]	0.711788	0.653677
tau[42]	0.415757	0.382133
tau[43]	1.124232	1.049387
tau[44]	0.153301	0.1997
tau[45]	0.892008	0.854093
tau[46]	1.65425	1.5744
tau[47]	1.330674	1.314033
tau[48]	2.719405	2.632967
tau[49]	1.034749	1.032583
tau[50]	0.727557	0.695917
tau[51]	0.244206	0.306757
tau[52]	1.420198	1.385067
tau[53]	0.706266	0.7165
tau[54]	0.893276	0.84687
tau[55]	0.34592	0.338727
tau[56]	0.095412	0.212997
tau[57]	1.494991	1.420933
tau[58]	0.600907	0.572527
tau[59]	0.335519	0.32776
tau[60]	0.03529	0.16251
tau[61]	0.255309	0.299207
tau[62]	1.864956	1.822
tau[63]	0.940723	0.91746
tau[64]	0.08882	0.195593
tau[65]	0.522163	0.477263
tau[66]	0.54176	0.53688
tau[67]	0.222201	0.234924
tau[68]	0.634877	0.593383
tau[69]	1.012433	1.04124
tau[70]	1.268311	1.2347
tau[71]	0.050902	0.13472
tau[72]	0.986781	0.968833

NODE	BANGKITAN	RERATA ESTIMASI
tau[73]	0.443118	0.463883
tau[74]	0.088361	0.196077
tau[75]	0.711822	0.705527
tau[76]	1.614853	1.5498
tau[77]	1.722121	1.6563
tau[78]	1.349951	1.309543
tau[79]	0.000691	0.129957
tau[80]	2.045702	1.993667
tau[81]	0.549982	0.523767
tau[82]	0.715314	0.706343
tau[83]	0.857325	0.857873
tau[84]	0.872893	0.865307
tau[85]	0.798409	0.821987
tau[86]	0.647353	0.651847
tau[87]	2.152082	2.099833
tau[88]	0.457398	0.46555
tau[89]	0.977928	0.952047
tau[90]	0.693462	0.685313
tau[91]	0.730267	0.711603
tau[92]	0.019569	0.122801
tau[93]	1.714703	1.679867
tau[94]	0.726343	0.752747
tau[95]	1.746109	1.7099
tau[96]	0.51992	0.460617
tau[97]	0.344537	0.38198
tau[98]	0.334018	0.28905
tau[99]	0.445383	0.438727
tau[100]	1.556108	1.493633
.....	.....	.....
tau[1101]	0.485821	0.49529
tau[1102]	0.77407	0.743133
tau[1103]	0.276955	0.245101
tau[1104]	1.822154	1.7458
tau[1105]	0.683284	0.641053
tau[1106]	0.987215	0.918127
tau[1107]	1.756667	1.718333
tau[1108]	0.041355	0.125729
tau[1109]	1.770453	1.6945
tau[1110]	0.785019	0.73703

NODE	BANGKITAN	RERATA ESTIMASI
tau[1111]	0.920387	0.921633
tau[1112]	0.152003	0.210676
tau[1113]	0.858057	0.89035
tau[1114]	0.591673	0.57167
tau[1115]	0.596823	0.530923
tau[1116]	0.929117	0.8807
tau[1117]	0.509124	0.472529
tau[1118]	0.028719	0.122877
tau[1119]	0.985561	0.984683
tau[1120]	1.732508	1.6906
tau[1121]	1.21116	1.169137
tau[1122]	1.052192	1.031527
tau[1123]	0.457245	0.45861
tau[1124]	0.094891	0.185201
tau[1125]	0.843426	0.81327
tau[1126]	0.893338	0.875477
tau[1127]	1.900265	1.829333
tau[1128]	1.094068	1.06641
tau[1129]	1.224084	1.209303
tau[1130]	0.035246	0.182172
tau[1131]	0.253895	0.237697
tau[1132]	0.188426	0.236977
tau[1133]	0.518838	0.515083
tau[1134]	0.019866	0.121972
tau[1135]	0.395628	0.420417
tau[1136]	0.773689	0.78212
tau[1137]	1.125658	1.071173
tau[1138]	0.189686	0.230733
tau[1139]	0.763248	0.735383
tau[1140]	0.847042	0.79608
tau[1141]	1.90407	1.882667
tau[1142]	0.428573	0.453617
tau[1143]	1.561143	1.529233
tau[1144]	1.149774	1.105043
tau[1145]	0.794512	0.77631
tau[1146]	0.630659	0.63325
tau[1147]	1.351901	1.244
tau[1148]	0.58664	0.576977
tau[1149]	0.225631	0.266659

NODE	BANGKITAN	RERATA ESTIMASI
tau[1150]	0.221495	0.249617
tau[1151]	1.084207	0.978927
tau[1152]	0.158146	0.1874
tau[1153]	1.130321	1.148607
tau[1154]	0.581925	0.592143
tau[1155]	0.500066	0.521897
tau[1156]	0.420333	0.362923
tau[1157]	0.114595	0.19282
tau[1158]	2.412938	2.376167
tau[1159]	0.131949	0.212258
tau[1160]	1.766924	1.730867
tau[1161]	0.415557	0.415807
tau[1162]	0.314679	0.315759
tau[1163]	0.759467	0.66735
tau[1164]	2.057178	2.007733
tau[1165]	0.970716	0.915867
tau[1166]	1.182004	1.193137
tau[1167]	0.598033	0.637013
tau[1168]	0.534096	0.490287
tau[1169]	2.05678	2.021967
tau[1170]	0.244922	0.253045
tau[1171]	0.088022	0.196737
tau[1172]	0.082038	0.189358
tau[1173]	1.160068	1.15074
tau[1174]	0.362391	0.405107
tau[1175]	0.378474	0.392887
tau[1176]	0.218549	0.25106
tau[1177]	1.020419	0.954517
tau[1178]	0.544717	0.567053
tau[1179]	0.511702	0.50706
tau[1180]	2.193507	2.157767
tau[1181]	0.294276	0.294153
tau[1182]	0.122063	0.182224
tau[1183]	1.692744	1.670467
tau[1184]	0.992428	0.993347
tau[1185]	0.025299	0.147497
tau[1186]	1.298301	1.240717
tau[1187]	0.398486	0.380827
tau[1188]	0.977251	0.991577

NODE	BANGKITAN	RERATA ESTIMASI
tau[1189]	0.484323	0.51728
tau[1190]	1.067536	1.02547
tau[1191]	0.299879	0.29387
tau[1192]	1.078172	1.04008
tau[1193]	0.091108	0.155378
tau[1194]	0.193943	0.236465
tau[1195]	0.435662	0.444167
tau[1196]	2.010116	1.920267
tau[1197]	0.269696	0.27732
tau[1198]	1.0917	1.01813
tau[1199]	0.837706	0.811393
tau[1200]	1.990252	1.940167
theta[1]	0.511472	0.246108
theta[2]	-0.395856	-0.455207
theta[3]	0.41669	0.400132
theta[4]	1.544207	0.990358
theta[5]	0.386967	0.473801
theta[6]	-0.078176	-0.137358
theta[7]	2.274581	1.879133
theta[8]	1.166881	0.736697
theta[9]	-0.194044	-0.203911
theta[10]	0.101154	0.115583
theta[11]	-2.238392	-0.590167
theta[12]	-1.891412	-1.528917
theta[13]	-1.89195	-0.4
theta[14]	-0.722322	-0.819007
theta[15]	0.1633	-0.002243
theta[16]	1.077536	0.790773
theta[17]	-0.260167	-0.388453
theta[18]	0.863277	0.583062
theta[19]	-2.583709	-1.608
theta[20]	0.377899	0.479517
theta[21]	1.458076	1.2944
theta[22]	0.000124	-0.129101
theta[23]	0.279632	0.175231
theta[24]	0.80249	0.472205
theta[25]	0.991359	0.753967
theta[26]	0.98604	1.002607
theta[27]	-0.221978	-0.23541

NODE	BANGKITAN	RERATA ESTIMASI
theta[28]	-0.762829	-0.78583
theta[29]	-0.584833	-0.607061
theta[30]	0.064835	-0.181482
theta[31]	0.776686	0.75552
theta[32]	0.974976	0.953353
theta[33]	0.029262	0.035197
theta[34]	0.623959	0.528381
theta[35]	-0.023037	-0.164876
theta[36]	1.187866	0.869536
theta[37]	1.524456	1.385257
theta[38]	0.35116	-0.044887
theta[39]	1.265208	1.033887
theta[40]	1.133035	0.841654
theta[41]	1.672033	1.463627
theta[42]	-0.313111	-0.361922
theta[43]	0.072401	-0.242296
theta[44]	-0.302072	-0.311227
theta[45]	-0.405545	-0.423907
theta[46]	1.345534	1.007036
theta[47]	-0.351319	-0.435541
theta[48]	-1.569097	-0.20286
theta[49]	-0.227893	-0.285948
theta[50]	-0.544805	-0.60767
theta[51]	-1.774677	-1.3813
theta[52]	0.028964	-0.065953
theta[53]	-0.193419	-0.355113
theta[54]	-0.297712	-0.359634
theta[55]	1.639905	1.459173
theta[56]	-1.315012	-1.147047
theta[57]	0.713341	0.344771
theta[58]	0.322895	0.250648
theta[59]	-0.450181	-0.50682
theta[60]	-0.61826	-0.471426
theta[61]	-0.152342	-0.059853
theta[62]	-0.017247	-0.269721
theta[63]	-0.618181	-0.606871
theta[64]	-0.167214	-0.095519
theta[65]	0.940433	0.88144
theta[66]	-1.579711	-1.281136

NODE	BANGKITAN	RERATA ESTIMASI
theta[67]	1.163676	1.017703
theta[68]	0.936409	0.87591
theta[69]	-2.166553	-1.212907
theta[70]	-1.131252	-0.760243
theta[71]	1.942821	1.8451
theta[72]	0.79114	0.684337
theta[73]	-1.560063	-1.30435
theta[74]	-1.18194	-1.109757
theta[75]	0.047836	-0.229749
theta[76]	0.709306	0.225878
theta[77]	-0.301539	-0.411497
theta[78]	-0.838582	-0.646204
theta[79]	-0.668569	-0.578069
theta[80]	-1.349701	-0.571502
theta[81]	-0.537217	-0.577357
theta[82]	0.33022	0.264623
theta[83]	-1.164338	-0.94259
theta[84]	-0.560031	-0.549586
theta[85]	-1.782329	-1.17472
theta[86]	-0.325415	-0.32802
theta[87]	0.243161	-0.245871
theta[88]	-1.617493	-1.3648
theta[89]	0.107377	-0.017586
theta[90]	-1.155151	-1.100667
theta[91]	-1.27378	-1.058135
theta[92]	0.872866	0.95661
theta[93]	-0.397945	-0.454039
theta[94]	-0.279344	-0.347132
theta[95]	1.28552	0.790158
theta[96]	0.385086	0.248705
theta[97]	-2.295668	-1.645183
theta[98]	1.13538	1.046293
theta[99]	-0.56478	-0.616417
theta[100]	1.006408	0.5006
.....	.....	.....
theta[1101]	-0.886559	-0.793512
theta[1102]	0.487055	0.243737
theta[1103]	1.711912	1.5262
theta[1104]	0.589212	0.245951

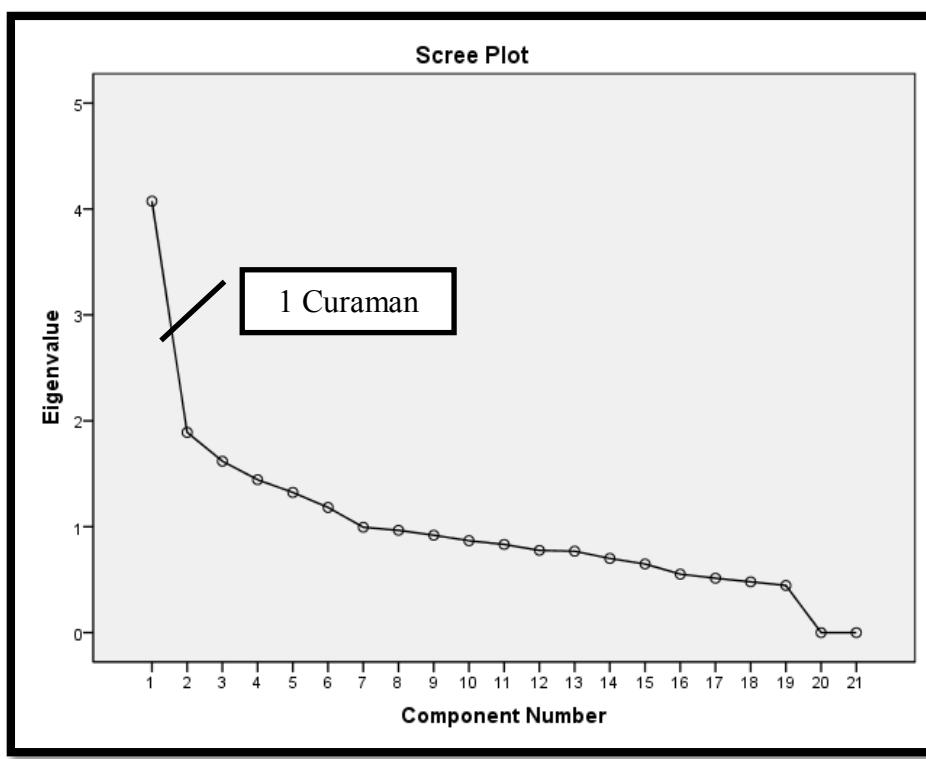
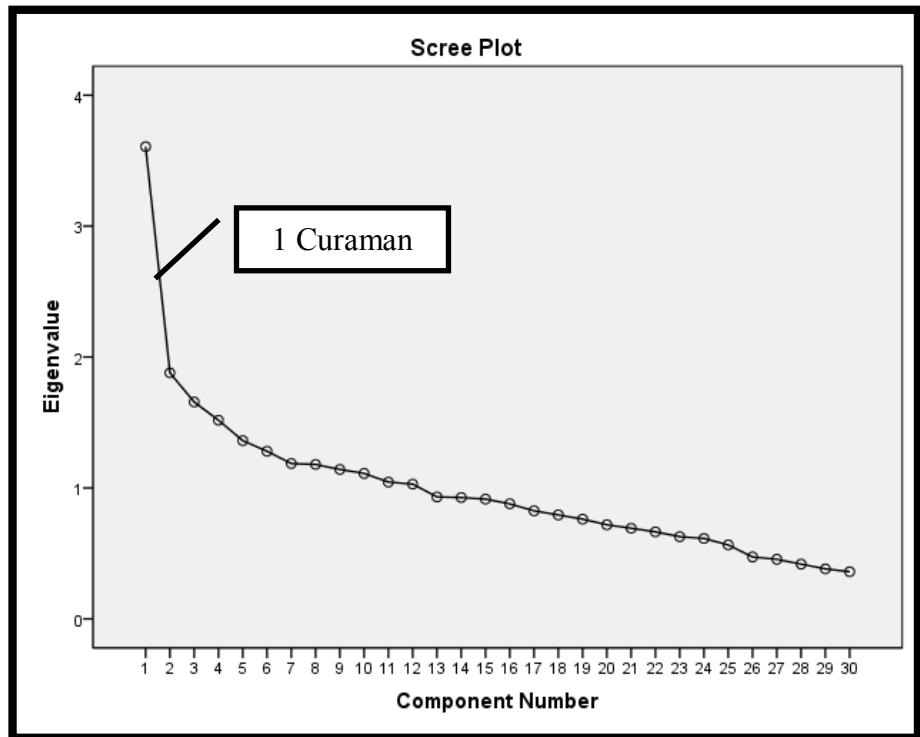
NODE	BANGKITAN	RERATA ESTIMASI
theta[1105]	0.350238	0.257137
theta[1106]	0.821715	0.663305
theta[1107]	-1.306084	-0.589473
theta[1108]	1.913611	1.823633
theta[1109]	0.778394	0.441491
theta[1110]	0.664368	0.53711
theta[1111]	-0.368324	-0.559941
theta[1112]	-0.139073	-0.163191
theta[1113]	-1.821953	-1.349363
theta[1114]	1.196472	1.114567
theta[1115]	0.412994	0.209809
theta[1116]	-1.077383	-0.935035
theta[1117]	1.992706	1.742933
theta[1118]	0.189779	0.291658
theta[1119]	-0.888027	-0.761322
theta[1120]	-0.320384	-0.287567
theta[1121]	0.817597	0.433873
theta[1122]	-0.300976	-0.383776
theta[1123]	0.029362	-0.087628
theta[1124]	-0.78954	-0.751913
theta[1125]	-0.395901	-0.488325
theta[1126]	-0.255432	-0.511689
theta[1127]	-0.644752	-0.431527
theta[1128]	-1.168111	-1.02185
theta[1129]	-0.357117	-0.421126
theta[1130]	-1.435073	-1.24403
theta[1131]	0.941437	0.835037
theta[1132]	0.136882	0.21715
theta[1133]	-0.747151	-0.7656
theta[1134]	1.501933	1.423667
theta[1135]	-0.593775	-0.609781
theta[1136]	-0.834787	-0.855842
theta[1137]	0.546085	0.270262
theta[1138]	1.22665	1.239357
theta[1139]	-0.156015	-0.180678
theta[1140]	-0.235437	-0.414649
theta[1141]	0.346196	-0.030167
theta[1142]	-1.096483	-1.12355
theta[1143]	0.174101	-0.04111

NODE	BANGKITAN	RERATA ESTIMASI
theta[1144]	0.66451	0.477035
theta[1145]	-0.249846	-0.408574
theta[1146]	-0.361341	-0.375909
theta[1147]	0.940288	0.651233
theta[1148]	-0.056701	-0.18814
theta[1149]	0.167872	0.133504
theta[1150]	1.271002	1.22747
theta[1151]	1.234786	0.899713
theta[1152]	-0.353783	-0.233876
theta[1153]	-0.982535	-0.638663
theta[1154]	-0.066217	-0.172715
theta[1155]	-0.02277	-0.123588
theta[1156]	0.147971	0.009038
theta[1157]	-1.438639	-1.319543
theta[1158]	0.189464	-0.046832
theta[1159]	-0.834552	-0.759693
theta[1160]	-1.189553	-0.616509
theta[1161]	0.648776	0.530953
theta[1162]	1.020445	0.844533
theta[1163]	0.684156	0.499288
theta[1164]	-0.163421	-0.194001
theta[1165]	0.446721	0.30266
theta[1166]	-0.420543	-0.612597
theta[1167]	-1.069405	-1.104503
theta[1168]	-0.717881	-0.680825
theta[1169]	-0.717118	-0.366663
theta[1170]	-0.427245	-0.489157
theta[1171]	-1.154705	-1.035663
theta[1172]	-0.120681	-0.092557
theta[1173]	0.51251	0.366436
theta[1174]	-0.983081	-0.92725
theta[1175]	-0.357164	-0.313573
theta[1176]	0.894203	0.852897
theta[1177]	1.165769	1.104007
theta[1178]	-0.307135	-0.348632
theta[1179]	-0.214196	-0.151672
theta[1180]	-0.727951	-0.153015
theta[1181]	-0.594953	-0.704843
theta[1182]	0.837082	0.853293

NODE	BANGKITAN	RERATA ESTIMASI
theta[1183]	-0.649728	-0.342979
theta[1184]	-0.363408	-0.399207
theta[1185]	0.813701	0.978847
theta[1186]	1.216259	0.98943
theta[1187]	-0.195032	-0.212439
theta[1188]	-0.632859	-0.561682
theta[1189]	-0.675565	-0.574434
theta[1190]	-0.64801	-0.569287
theta[1191]	0.666972	0.63267
theta[1192]	-0.458495	-0.631605
theta[1193]	2.454703	2.3484
theta[1194]	0.308982	0.203669
theta[1195]	0.61224	0.462177
theta[1196]	0.034683	-0.195357
theta[1197]	1.241241	1.229457
theta[1198]	2.529394	2.287733
theta[1199]	-0.295316	-0.356415
theta[1200]	-0.29047	-0.282371
xi[1]	0.853967	0.845533
xi[2]	0.456198	0.452843
xi[3]	0.291257	0.29301
xi[4]	0.154825	0.146985
xi[5]	0.547218	0.53712
xi[6]	0.089681	0.085257
xi[7]	0.854944	0.851563
xi[8]	0.773287	0.760233
xi[9]	0.068829	0.066286
xi[10]	1.536313	1.521267
xi[11]	1.568674	1.5626

NODE	BANGKITAN	RERATA ESTIMASI
xi[12]	0.846771	0.836533
xi[13]	0.904828	0.897817
xi[14]	2.330319	2.324
xi[15]	0.734479	0.71511
xi[16]	0.456977	0.44046
xi[17]	0.682875	0.670793
xi[18]	1.071874	1.06307
xi[19]	1.017417	0.99725
xi[20]	1.158965	1.152633
xi[21]	0.831134	0.817227
xi[22]	0.34602	0.349553
xi[23]	0.022046	0.030763
xi[24]	0.81133	0.804387
xi[25]	0.505067	0.489003
xi[26]	0.110024	0.09973
xi[27]	0.673225	0.647907
xi[28]	0.606626	0.59552
xi[29]	1.159746	1.147033
xi[30]	0.346203	0.34342
xi[31]	0.975039	0.963897
xi[32]	0.405669	0.393547
xi[33]	0.73211	0.724577
xi[34]	1.287587	1.2862
xi[35]	0.630154	0.613133
xi[36]	2.994443	2.973033
xi[37]	1.068284	1.057513
xi[38]	0.369734	0.354767
xi[39]	0.002268	0.026449
xi[40]	0.614899	0.603507

**Lampiran 23. Scree Plot untuk Uji Unidimensi dan Independensi Lokal  
(30 item; 21 item)**



## Lampiran 24. WinBUGS Code untuk Estimasi Parameter Data Empiris (Model IRT 2 Parameter)

```

model{
for (i in 1:n){
theta[i]~dnorm(0,1)

for (j in 1:J){
x[i,j] ~ dbern( pi[i,j] )
pi[i,j]<-exp(1.7*a[j]*(theta[i]-b[j]))/(1+exp(1.7*a[j]*(theta[i]-b[j])))
mx[i,j]<-1-x[i,j]
rx[i,j]~dbern(pi[i,j])
mrx[i,j]<-1-rx[i,j]
}
totalrx[i]<-sum(rx[i,])
totalx[i]<-sum(x[i,])
}

# priors
for (j in 1:J){
b[j]~dnorm(0,1)
a[j]~dnorm(0,1)I(0,1)
}

#compute odd ratio &PPPvalue
for(k in 2:J){
for(l in 1: (k-1)){
or.rep[k,l]<-
inprod(rx[1:n,l],rx[1:n,k])*inprod(mrx[1:n,l],mrx[1:n,k])/inprod(mrx[1:n,l],rx[1:n,k])*inprod(rx[1:n,l],mrx[1:n,k])
or[k,l]<-inprod(x[1:n,l],x[1:n,k])*inprod(mx[1:n,l],mx[1:n,k])/inprod(mx[1:n,l],x[1:n,k])*inprod(x[1:n,l],mx[1:n,k])
ppp.or[k,l]<-step(or.rep[k,l]-or[k,l])
}
}
for(i in 1:n)
{
scorerx0[i] <-equals(totalrx[i],0)
scorerx1[i] <-equals(totalrx[i],1)
scorerx2[i] <-equals(totalrx[i],2)
scorerx3[i] <-equals(totalrx[i],3)
scorerx4[i] <-equals(totalrx[i],4)
scorerx5[i] <-equals(totalrx[i],5)
scorerx6[i] <-equals(totalrx[i],6)
scorerx7[i] <-equals(totalrx[i],7)
scorerx8[i] <-equals(totalrx[i],8)
scorerx9[i] <-equals(totalrx[i],9)
scorerx10[i] <-equals(totalrx[i],10)
scorerx11[i] <-equals(totalrx[i],11)
scorerx12[i] <-equals(totalrx[i],12)
scorerx13[i] <-equals(totalrx[i],13)
scorerx14[i] <-equals(totalrx[i],14)
scorerx15[i] <-equals(totalrx[i],15)
scorerx16[i] <-equals(totalrx[i],16)
scorerx17[i] <-equals(totalrx[i],17)
scorerx18[i] <-equals(totalrx[i],18)
scorerx19[i] <-equals(totalrx[i],19)
scorerx20[i] <-equals(totalrx[i],20)
scorerx21[i] <-equals(totalrx[i],21)

scorex0[i] <-equals(totalx[i],0)
scorex1[i] <-equals(totalx[i],1)
scorex2[i] <-equals(totalx[i],2)
scorex3[i] <-equals(totalx[i],3)
scorex4[i] <-equals(totalx[i],4)
scorex5[i] <-equals(totalx[i],5)
scorex6[i] <-equals(totalx[i],6)
scorex7[i] <-equals(totalx[i],7)
scorex8[i] <-equals(totalx[i],8)
scorex9[i] <-equals(totalx[i],9)
scorex10[i] <-equals(totalx[i],10)
}

```

```

scorex11[i] <=totalx[i],11)
scorex12[i] <=totalx[i],12)
scorex13[i] <=totalx[i],13)
scorex14[i] <=totalx[i],14)
scorex15[i] <=totalx[i],15)
scorex16[i] <=totalx[i],16)
scorex17[i] <=totalx[i],17)
scorex18[i] <=totalx[i],18)
scorex19[i] <=totalx[i],19)
scorex20[i] <=totalx[i],20)
scorex21[i] <=totalx[i],21)

}

ts.resultrx[1]<-sum(scorerx0[])
ts.resultrx[2]<-sum(scorerx1[])
ts.resultrx[3]<-sum(scorerx2[])
ts.resultrx[4]<-sum(scorerx3[])
ts.resultrx[5]<-sum(scorerx4[])
ts.resultrx[6]<-sum(scorerx5[])
ts.resultrx[7]<-sum(scorerx6[])
ts.resultrx[8]<-sum(scorerx7[])
ts.resultrx[9]<-sum(scorerx8[])
ts.resultrx[10]<-sum(scorerx9[])
ts.resultrx[11]<-sum(scorerx10[])
ts.resultrx[12]<-sum(scorerx11[])
ts.resultrx[13]<-sum(scorerx12[])
ts.resultrx[14]<-sum(scorerx13[])
ts.resultrx[15]<-sum(scorerx14[])
ts.resultrx[16]<-sum(scorerx15[])
ts.resultrx[17]<-sum(scorerx16[])
ts.resultrx[18]<-sum(scorerx17[])
ts.resultrx[19]<-sum(scorerx18[])
ts.resultrx[20]<-sum(scorerx19[])
ts.resultrx[21]<-sum(scorerx20[])
ts.resultrx[22]<-sum(scorerx21[])

```

```

}

INIT
```

DATA

## Lampiran 25. WinBUGS Code untuk Estimasi Parameter Data Empiris (Model Simultan 1 Parameter)

```

model {
for (i in 1:n) {
theta[i]~dnorm(0,1)
tau[i]~dnorm(0,1)

for (j in 1:J{
    x[i,j]~dbern(pi[i,j])
    pi[i,j]<-exp(1.7*(theta[i]-(d[j]/t[i,j])-b[j]))/(1+exp(1.7*(theta[i]-(d[j]/t[i,j])-b[j])))
    t[i,j]~dnorm(mu[i,j],sigma)
    mu[i,j]<-beta[j]-tau[i]
    mx[i,j]<-1-x[i,j]
    rx[i,j]~dbern(pi[i,j])
    mrx[i,j]<-1-rx[i,j]
}
totalrx[i]<-sum(rx[i,.])
totalx[i]<-sum(x[i,.])
}
#priors
for (j in 1:J){

b[j]~dnorm(0,1)
d[j]~dnorm(0,1)I(0,)
beta[j]~dnorm(0,1)
}
sigma~dunif(0,1)

#compute odd ratio &PPPvalue
for(k in 2:J){
for(l in 1: (k-1)){
or.rep[k,l]<-
inprod(rx[1:n,],rx[1:n,k])*inprod(mrx[1:n,],mrk[1:n,k])/inprod(mrx[1:n,],rx[1:n,k])*inprod(rx[1:n,],mrk[1:n,k])
or[k,l]<-inprod(x[1:n,],x[1:n,k])*inprod(mx[1:n,],mx[1:n,k])/inprod(mx[1:n,],x[1:n,k])*inprod(x[1:n,],mx[1:n,k])
ppp.or[k,l]<-step(or.rep[k,l]-or[k,l])
}
}
for(i in 1:n)
{
scorerx0[i] <-equals(totalrx[i],0)
scorerx1[i] <-equals(totalrx[i],1)
scorerx2[i] <-equals(totalrx[i],2)
scorerx3[i] <-equals(totalrx[i],3)
scorerx4[i] <-equals(totalrx[i],4)
scorerx5[i] <-equals(totalrx[i],5)
scorerx6[i] <-equals(totalrx[i],6)
scorerx7[i] <-equals(totalrx[i],7)
scorerx8[i] <-equals(totalrx[i],8)
scorerx9[i] <-equals(totalrx[i],9)
scorerx10[i] <-equals(totalrx[i],10)
scorerx11[i] <-equals(totalrx[i],11)
scorerx12[i] <-equals(totalrx[i],12)
scorerx13[i] <-equals(totalrx[i],13)
scorerx14[i] <-equals(totalrx[i],14)
scorerx15[i] <-equals(totalrx[i],15)
scorerx16[i] <-equals(totalrx[i],16)
scorerx17[i] <-equals(totalrx[i],17)
scorerx18[i] <-equals(totalrx[i],18)
scorerx19[i] <-equals(totalrx[i],19)
scorerx20[i] <-equals(totalrx[i],20)
scorerx21[i] <-equals(totalrx[i],21)

scorex0[i] <-equals(totalx[i],0)
scorex1[i] <-equals(totalx[i],1)
scorex2[i] <-equals(totalx[i],2)
scorex3[i] <-equals(totalx[i],3)
scorex4[i] <-equals(totalx[i],4)
}

```

```

scorex5[i] <-equals(totalx[i],5)
scorex6[i] <-equals(totalx[i],6)
scorex7[i] <-equals(totalx[i],7)
scorex8[i] <-equals(totalx[i],8)
scorex9[i] <-equals(totalx[i],9)
scorex10[i] <-equals(totalx[i],10)
scorex11[i] <-equals(totalx[i],11)
scorex12[i] <-equals(totalx[i],12)
scorex13[i] <-equals(totalx[i],13)
scorex14[i] <-equals(totalx[i],14)
scorex15[i] <-equals(totalx[i],15)
scorex16[i] <-equals(totalx[i],16)
scorex17[i] <-equals(totalx[i],17)
scorex18[i] <-equals(totalx[i],18)
scorex19[i] <-equals(totalx[i],19)
scorex20[i] <-equals(totalx[i],20)
scorex21[i] <-equals(totalx[i],21)

}

ts.resultrx[1]<-sum(scorerx0[])
ts.resultrx[2]<-sum(scorerx1[])
ts.resultrx[3]<-sum(scorerx2[])
ts.resultrx[4]<-sum(scorerx3[])
ts.resultrx[5]<-sum(scorerx4[])
ts.resultrx[6]<-sum(scorerx5[])
ts.resultrx[7]<-sum(scorerx6[])
ts.resultrx[8]<-sum(scorerx7[])
ts.resultrx[9]<-sum(scorerx8[])
ts.resultrx[10]<-sum(scorerx9[])
ts.resultrx[11]<-sum(scorerx10[])
ts.resultrx[12]<-sum(scorerx11[])
ts.resultrx[13]<-sum(scorerx12[])
ts.resultrx[14]<-sum(scorerx13[])
ts.resultrx[15]<-sum(scorerx14[])
ts.resultrx[16]<-sum(scorerx15[])
ts.resultrx[17]<-sum(scorerx16[])
ts.resultrx[18]<-sum(scorerx17[])
ts.resultrx[19]<-sum(scorerx18[])
ts.resultrx[20]<-sum(scorerx19[])
ts.resultrx[21]<-sum(scorerx20[])
ts.resultrx[22]<-sum(scorerx21[])

```

```

}

INIT
```

DATA

## Lampiran 26. WinBUGS Code untuk Estimasi Parameter Data Empiris (Model Simultan 2 Parameter)

```

model{
for (i in 1:n){
theta[i]~dnorm(0,1)
tau[i]~dnorm(0,1)I(0,)

for (j in 1:J){
x[i,j] ~ dbern( pi[i,j] )
pi[i,j]<-exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j]))/(1+exp(1.7*a[j]*(theta[i]-tau[i]-(1/t[i,j])-b[j])))
t[i,j]~dlnorm(mu[i,j],sigma)
mu[i,j]<-xi[j]-tau[i]
mx[i,j]<-1-x[i,j]
rx[i,j]~dbern(pi[i,j])
mrx[i,j]<-1-rx[i,j]
}
totalrx[i]<-sum(rx[i,:])
totalx[i]<-sum(x[i,:])
}

# priors
for (j in 1:J){
b[j]~dnorm(0,1)
a[j]~dnorm(0,1)I(0,)
xi[j]~dnorm(0,1)I(0,)
}
sigma ~ dunif (0,1)

#compute odd ratio &PPPvalue
for(k in 2:J){
for(l in 1: (k-1)){
or.rep[k,l]<-
inprod(rx[1:n,],rx[1:n,k])*inprod(mrx[1:n,],mrk[1:n,k])/inprod(mrx[1:n,],rx[1:n,k])*inprod(rx[1:n,],mrk[1:n,k])
or[k,l]<-inprod(x[1:n,],x[1:n,k])*inprod(mx[1:n,],mx[1:n,k])/inprod(mx[1:n,],x[1:n,k])*inprod(x[1:n,],mx[1:n,k])
ppp.or[k,l]<-step(or.rep[k,l]-or[k,l])
}
}
for(i in 1:n)
{
scorerx0[i] <-equals(totalrx[i],0)
scorerx1[i] <-equals(totalrx[i],1)
scorerx2[i] <-equals(totalrx[i],2)
scorerx3[i] <-equals(totalrx[i],3)
scorerx4[i] <-equals(totalrx[i],4)
scorerx5[i] <-equals(totalrx[i],5)
scorerx6[i] <-equals(totalrx[i],6)
scorerx7[i] <-equals(totalrx[i],7)
scorerx8[i] <-equals(totalrx[i],8)
scorerx9[i] <-equals(totalrx[i],9)
scorerx10[i] <-equals(totalrx[i],10)
scorerx11[i] <-equals(totalrx[i],11)
scorerx12[i] <-equals(totalrx[i],12)
scorerx13[i] <-equals(totalrx[i],13)
scorerx14[i] <-equals(totalrx[i],14)
scorerx15[i] <-equals(totalrx[i],15)
scorerx16[i] <-equals(totalrx[i],16)
scorerx17[i] <-equals(totalrx[i],17)
scorerx18[i] <-equals(totalrx[i],18)
scorerx19[i] <-equals(totalrx[i],19)
scorerx20[i] <-equals(totalrx[i],20)
scorerx21[i] <-equals(totalrx[i],21)

scorex0[i] <-equals(totalx[i],0)
scorex1[i] <-equals(totalx[i],1)
scorex2[i] <-equals(totalx[i],2)
scorex3[i] <-equals(totalx[i],3)
scorex4[i] <-equals(totalx[i],4)
scorex5[i] <-equals(totalx[i],5)
}

```

```

scorex6[i] <-equals(totalx[i],6)
scorex7[i] <-equals(totalx[i],7)
scorex8[i] <-equals(totalx[i],8)
scorex9[i] <-equals(totalx[i],9)
scorex10[i] <-equals(totalx[i],10)
scorex11[i] <-equals(totalx[i],11)
scorex12[i] <-equals(totalx[i],12)
scorex13[i] <-equals(totalx[i],13)
scorex14[i] <-equals(totalx[i],14)
scorex15[i] <-equals(totalx[i],15)
scorex16[i] <-equals(totalx[i],16)
scorex17[i] <-equals(totalx[i],17)
scorex18[i] <-equals(totalx[i],18)
scorex19[i] <-equals(totalx[i],19)
scorex20[i] <-equals(totalx[i],20)
scorex21[i] <-equals(totalx[i],21)

}
ts.resultrx[1]<-sum(scorerx0[])
ts.resultrx[2]<-sum(scorerx1[])
ts.resultrx[3]<-sum(scorerx2[])
ts.resultrx[4]<-sum(scorerx3[])
ts.resultrx[5]<-sum(scorerx4[])
ts.resultrx[6]<-sum(scorerx5[])
ts.resultrx[7]<-sum(scorerx6[])
ts.resultrx[8]<-sum(scorerx7[])
ts.resultrx[9]<-sum(scorerx8[])
ts.resultrx[10]<-sum(scorerx9[])
ts.resultrx[11]<-sum(scorerx10[])
ts.resultrx[12]<-sum(scorerx11[])
ts.resultrx[13]<-sum(scorerx12[])
ts.resultrx[14]<-sum(scorerx13[])
ts.resultrx[15]<-sum(scorerx14[])
ts.resultrx[16]<-sum(scorerx15[])
ts.resultrx[17]<-sum(scorerx16[])
ts.resultrx[18]<-sum(scorerx17[])
ts.resultrx[19]<-sum(scorerx18[])
ts.resultrx[20]<-sum(scorerx19[])
ts.resultrx[21]<-sum(scorerx20[])
ts.resultrx[22]<-sum(scorerx21[])

```

```

}
INIT
```

```

|
DATA
```

**Lampiran 27. Hasil Estimasi Parameter Data Empiris (Model IRT 2 Parameter)**

NODE	ESTIMASI
a[1]	0.5215
a[2]	0.3236
a[3]	0.2735
a[4]	0.3701
a[5]	0.8341
a[6]	0.9589
a[7]	0.8173
a[8]	1.361
a[9]	0.749
a[10]	1.295
a[11]	1.126
a[12]	0.5496
a[13]	0.7416
a[14]	0.5059
a[15]	0.5329
a[16]	0.4694
a[17]	0.7574
a[18]	1.31
a[19]	0.3621
a[20]	0.7867
a[21]	0.3194
b[1]	-2.959
b[2]	-3.378
b[3]	4.111
b[4]	-3.388
b[5]	-3.07
b[6]	-2.816
b[7]	-1.384
b[8]	-1.746
b[9]	-2.306
b[10]	-2.145
b[11]	-1.768
b[12]	-1.197
b[13]	-1.903
b[14]	-0.1331
b[15]	3.072
b[16]	-1.969

NODE	ESTIMASI
b[17]	-0.4027
b[18]	-0.2473
b[19]	-1.06
b[20]	-2.099
b[21]	0.5142
theta[1]	0.9308
theta[2]	-0.5795
theta[3]	0.3521
theta[4]	-0.1465
theta[5]	0.09659
theta[6]	-0.00791
theta[7]	-1.457
theta[8]	0.9429
theta[9]	0.7996
theta[10]	-1.147
theta[11]	1.313
theta[12]	-0.5388
theta[13]	0.1372
theta[14]	-0.6461
theta[15]	-0.4491
theta[16]	-0.8097
theta[17]	1.174
theta[18]	-0.00144
theta[19]	0.8245
theta[20]	1.539
theta[21]	-1.848
theta[22]	-1.237
theta[23]	0.2449
theta[24]	0.9069
theta[25]	-2.551
theta[26]	0.6005
theta[27]	0.5006
theta[28]	-0.2468
theta[29]	-0.4053
theta[30]	-0.1716
theta[31]	0.6225
theta[32]	-1.084

NODE	ESTIMASI
theta[33]	0.2013
theta[34]	-0.4449
theta[35]	-0.6917
theta[36]	1.149
theta[37]	-0.5234
theta[38]	0.07087
theta[39]	-0.6074
theta[40]	-1.007
theta[41]	-0.4072
theta[42]	-0.06257
theta[43]	-0.7692
theta[44]	0.337
theta[45]	0.2324
theta[46]	0.1271
theta[47]	-0.2424
theta[48]	-0.1167
theta[49]	0.2102
theta[50]	-0.6611
theta[51]	0.176
theta[52]	0.6356
theta[53]	-0.852
theta[54]	0.2369
theta[55]	-1.98
theta[56]	0.1019
theta[57]	-0.1573
theta[58]	-0.09289
theta[59]	0.992
theta[60]	-0.5321
theta[61]	0.06578
theta[62]	-0.208
theta[63]	0.7929
theta[64]	0.252
theta[65]	-0.4338
theta[66]	-1.263
theta[67]	0.6768
theta[68]	0.815
theta[69]	-0.6002

NODE	ESTIMASI
theta[70]	0.223
theta[71]	-0.7509
theta[72]	-0.3441
theta[73]	-0.474
theta[74]	-0.7259
theta[75]	-0.7821
theta[76]	-0.8939
theta[77]	1.321
theta[78]	0.52
theta[79]	0.07236
theta[80]	-0.8524
theta[81]	0.3015
theta[82]	0.6195
theta[83]	-0.2197
theta[84]	1.17
theta[85]	0.5744
theta[86]	-0.1202
theta[87]	-0.04806
theta[88]	-0.1123
theta[89]	0.2063
theta[90]	-1.765
theta[91]	0.3415
theta[92]	0.5676
theta[93]	0.479
theta[94]	-0.8157
theta[95]	-0.2397
theta[96]	-0.02576
theta[97]	-0.487
theta[98]	-0.703
theta[99]	-0.5621
theta[100]	0.7861
.....	.....
theta[601]	-0.5913
theta[602]	0.4251
theta[603]	-0.937
theta[604]	-2.339
theta[605]	0.09963
theta[606]	-1.241
theta[607]	0.946
theta[608]	1.567

NODE	ESTIMASI
theta[609]	0.7944
theta[610]	-0.5673
theta[611]	-0.7856
theta[612]	0.7112
theta[613]	-0.443
theta[614]	-0.4401
theta[615]	-0.4722
theta[616]	-0.4885
theta[617]	0.3559
theta[618]	0.3908
theta[619]	0.1368
theta[620]	-0.4046
theta[621]	-0.9569
theta[622]	0.8913
theta[623]	0.5925
theta[624]	0.5605
theta[625]	-0.7617
theta[626]	0.9201
theta[627]	0.3125
theta[628]	0.3665
theta[629]	0.4451
theta[630]	-0.1445
theta[631]	-0.00172
theta[632]	0.6106
theta[633]	0.3181
theta[634]	1.154
theta[635]	0.3211
theta[636]	-0.3987
theta[637]	-0.4701
theta[638]	0.6233
theta[639]	0.9152
theta[640]	-0.2085
theta[641]	0.4829
theta[642]	0.3033
theta[643]	-0.1604
theta[644]	-0.4167
theta[645]	-0.8511
theta[646]	-1.309
theta[647]	-0.2273
theta[648]	-1.623

NODE	ESTIMASI
theta[649]	-0.6234
theta[650]	0.7998
theta[651]	-0.5331
theta[652]	0.03277
theta[653]	0.4323
theta[654]	0.7445
theta[655]	-1.479
theta[656]	0.4482
theta[657]	-0.6402
theta[658]	-0.02268
theta[659]	0.2257
theta[660]	-0.813
theta[661]	-0.422
theta[662]	0.9107
theta[663]	0.828
theta[664]	0.9973
theta[665]	-0.6738
theta[666]	-0.7004
theta[667]	0.8311
theta[668]	0.05359
theta[669]	0.2002
theta[670]	0.4885
theta[671]	0.8987
theta[672]	0.6305
theta[673]	-0.4583
theta[674]	0.1956
theta[675]	1.114
theta[676]	0.9164
theta[677]	0.3033
theta[678]	-0.433
theta[679]	0.6498
theta[680]	0.9722
theta[681]	-0.7436
theta[682]	0.02588
theta[683]	-0.5847
theta[684]	1.19
theta[685]	0.6732
theta[686]	0.8844
theta[687]	0.4324
theta[688]	0.6916

NODE	ESTIMASI
theta[689]	1.167
theta[690]	-0.7423
theta[691]	0.6439
theta[692]	1.14
theta[693]	-0.3198
theta[694]	-0.6852
theta[695]	0.9187
theta[696]	-1.036
theta[697]	-0.5079
theta[698]	1.178

NODE	ESTIMASI
theta[699]	0.8885
theta[700]	1.527
theta[701]	0.2429
theta[702]	0.9013
theta[703]	-0.266
theta[704]	0.5457
theta[705]	0.8587
theta[706]	-1.976
theta[707]	-0.2518
theta[708]	1.167

NODE	ESTIMASI
theta[709]	1.093
theta[710]	0.7947
theta[711]	-1.301
theta[712]	0.05872
theta[713]	0.08309
theta[714]	0.4151
theta[715]	-0.2679
theta[716]	1.366
theta[717]	0.5025

**Lampiran 28. Hasil Estimasi Parameter Data Empiris (Model Simultan 1 Parameter)**

NODE	ESTIMASI
b[1]	-1.688
b[2]	-1.314
b[3]	1.264
b[4]	-1.485
b[5]	-2.488
b[6]	-2.515
b[7]	-1.103
b[8]	-1.855
b[9]	-1.754
b[10]	-2.17
b[11]	-1.775
b[12]	-0.734
b[13]	-1.402
b[14]	-0.109
b[15]	1.688
b[16]	-1.116
b[17]	-0.3584
b[18]	-0.2802
b[19]	-0.4747
b[20]	-1.633
b[21]	0.1925
beta[1]	4.123
beta[2]	3.239
beta[3]	2.867
beta[4]	3.223
beta[5]	2.918
beta[6]	2.663
beta[7]	2.797
beta[8]	2.844
beta[9]	2.967
beta[10]	3.077
beta[11]	3.244
beta[12]	3.597
beta[13]	3.395
beta[14]	3.296
beta[15]	3.125
beta[16]	3.082

NODE	ESTIMASI
beta[17]	3.437
beta[18]	3.387
beta[19]	3.272
beta[20]	3.608
beta[21]	3.82
d[1]	0.2087
d[2]	0.1179
d[3]	0.7493
d[4]	0.3197
d[5]	0.3123
d[6]	0.4294
d[7]	0.1952
d[8]	0.5477
d[9]	0.4405
d[10]	0.2661
d[11]	1.225
d[12]	0.379
d[13]	0.2857
d[14]	0.393
d[15]	0.5227
d[16]	0.8127
d[17]	0.7083
d[18]	0.4013
d[19]	0.4713
d[20]	0.3107
d[21]	0.1714
sigma	0.6852
tau[1]	0.3312
tau[2]	-0.5838
tau[3]	-0.2227
tau[4]	-0.03302
tau[5]	-0.726
tau[6]	0.306
tau[7]	-0.1581
tau[8]	0.3944
tau[9]	1.263
tau[10]	-0.4655

NODE	ESTIMASI
tau[11]	0.1319
tau[12]	-0.3315
tau[13]	-0.2787
tau[14]	0.3227
tau[15]	0.6019
tau[16]	-0.5329
tau[17]	-0.2476
tau[18]	-0.4153
tau[19]	0.134
tau[20]	0.01846
tau[21]	-0.06633
tau[22]	-0.4263
tau[23]	-0.05352
tau[24]	-0.1576
tau[25]	0.3803
tau[26]	0.421
tau[27]	0.1508
tau[28]	-0.5578
tau[29]	0.3339
tau[30]	-0.4745
tau[31]	-0.1876
tau[32]	-0.1131
tau[33]	-0.5478
tau[34]	0.369
tau[35]	-0.08852
tau[36]	-0.08185
tau[37]	-0.5204
tau[38]	-0.6842
tau[39]	-0.1753
tau[40]	1.338
tau[41]	-0.4064
tau[42]	-0.3164
tau[43]	-0.4913
tau[44]	-0.4918
tau[45]	-0.07433
tau[46]	0.5446
tau[47]	-0.4217

NODE	ESTIMASI
tau[48]	-0.3376
tau[49]	0.2951
tau[50]	0.1958
tau[51]	0.4994
tau[52]	0.1871
tau[53]	-0.4865
tau[54]	-0.02665
tau[55]	-0.3299
tau[56]	0.06337
tau[57]	1.446
tau[58]	0.4184
tau[59]	0.02873
tau[60]	-0.6275
tau[61]	-0.5091
tau[62]	0.3832
tau[63]	-0.6608
tau[64]	-0.1281
tau[65]	-0.1225
tau[66]	-0.5045
tau[67]	0.241
tau[68]	0.3732
tau[69]	-0.1979
tau[70]	-0.3539
tau[71]	0.4836
tau[72]	-0.4668
tau[73]	-0.1801
tau[74]	0.0589
tau[75]	0.1967
tau[76]	-0.6009
tau[77]	-0.06603
tau[78]	-0.06502
tau[79]	0.4054
tau[80]	-0.8268
tau[81]	-0.4437
tau[82]	-0.2819
tau[83]	-0.6891
tau[84]	-0.2215
tau[85]	-0.6059
tau[86]	-0.2317
tau[87]	0.259

NODE	ESTIMASI
tau[88]	-0.3485
tau[89]	0.3106
tau[90]	0.1188
tau[91]	-0.5116
tau[92]	-0.4178
tau[93]	-0.4937
tau[94]	-0.5679
tau[95]	-0.4546
tau[96]	-0.1711
tau[97]	0.1813
tau[98]	-0.583
tau[99]	-0.09004
tau[100]	-0.5586
.....	.....
tau[601]	-0.3767
tau[602]	0.1617
tau[603]	-0.2181
tau[604]	-0.7703
tau[605]	-0.4584
tau[606]	0.4385
tau[607]	0.195
tau[608]	0.06178
tau[609]	-0.611
tau[610]	-0.3869
tau[611]	0.5957
tau[612]	0.398
tau[613]	0.7659
tau[614]	-0.4017
tau[615]	-0.6123
tau[616]	0.1718
tau[617]	0.6155
tau[618]	-0.4159
tau[619]	0.3784
tau[620]	0.02837
tau[621]	-0.05401
tau[622]	0.5116
tau[623]	-0.3342
tau[624]	-0.6722
tau[625]	0.4356
tau[626]	-0.5699

NODE	ESTIMASI
tau[627]	0.03125
tau[628]	-0.6243
tau[629]	-0.3826
tau[630]	-0.1454
tau[631]	-0.734
tau[632]	-0.4425
tau[633]	-0.602
tau[634]	0.223
tau[635]	0.6219
tau[636]	-0.2213
tau[637]	-0.2841
tau[638]	-0.201
tau[639]	0.5173
tau[640]	-0.1833
tau[641]	0.9448
tau[642]	0.08955
tau[643]	-0.04047
tau[644]	1.359
tau[645]	-0.3123
tau[646]	-0.2189
tau[647]	-0.7046
tau[648]	-0.8787
tau[649]	-0.4597
tau[650]	-0.3388
tau[651]	-0.2823
tau[652]	-0.8152
tau[653]	0.1112
tau[654]	-0.6388
tau[655]	1.329
tau[656]	-0.2604
tau[657]	-0.7179
tau[658]	0.1306
tau[659]	-0.3253
tau[660]	-0.05142
tau[661]	2.023
tau[662]	0.4306
tau[663]	0.09391
tau[664]	-0.3135
tau[665]	0.3069
tau[666]	-0.6505

NODE	ESTIMASI
tau[667]	-0.6918
tau[668]	-0.3268
tau[669]	0.2997
tau[670]	-0.3778
tau[671]	-0.1822
tau[672]	-0.4272
tau[673]	0.5087
tau[674]	0.03262
tau[675]	-0.2258
tau[676]	-0.5412
tau[677]	-0.3572
tau[678]	0.01717
tau[679]	-0.5191
tau[680]	0.2681
tau[681]	0.9642
tau[682]	-0.1941
tau[683]	-0.3809
tau[684]	-0.2517
tau[685]	-0.2946
tau[686]	0.116
tau[687]	-0.2519
tau[688]	-0.1277
tau[689]	0.7577
tau[690]	-0.3531
tau[691]	-0.4014
tau[692]	0.1902
tau[693]	-0.1994
tau[694]	-0.3274
tau[695]	0.1026
tau[696]	-0.6646
tau[697]	0.3024
tau[698]	-0.1019
tau[699]	-0.132
tau[700]	-0.1651
tau[701]	-0.1696
tau[702]	0.09649
tau[703]	-0.6178
tau[704]	-0.3961
tau[705]	0.5453
tau[706]	-0.5461

NODE	ESTIMASI
tau[707]	1.02
tau[708]	-0.1836
tau[709]	0.0706
tau[710]	1.228
tau[711]	-0.4377
tau[712]	0.485
tau[713]	1.017
tau[714]	-0.3002
tau[715]	-0.07504
tau[716]	0.2103
tau[717]	-0.4537
theta[1]	0.968
theta[2]	-0.3786
theta[3]	0.2963
theta[4]	0.0881
theta[5]	0.01527
theta[6]	0.3338
theta[7]	-1.069
theta[8]	0.5781
theta[9]	0.628
theta[10]	-0.7423
theta[11]	0.9335
theta[12]	-0.3691
theta[13]	-0.1594
theta[14]	-0.3014
theta[15]	-0.3122
theta[16]	-0.7491
theta[17]	0.9314
theta[18]	0.03937
theta[19]	0.5883
theta[20]	1.401
theta[21]	-1.341
theta[22]	-1.028
theta[23]	0.08266
theta[24]	0.6029
theta[25]	-2.016
theta[26]	0.3298
theta[27]	0.07146
theta[28]	-0.1704
theta[29]	0.07565

NODE	ESTIMASI
theta[30]	-0.1664
theta[31]	0.2888
theta[32]	-0.7113
theta[33]	0.2829
theta[34]	-0.3557
theta[35]	-0.5623
theta[36]	0.8924
theta[37]	-0.5647
theta[38]	0.04387
theta[39]	-0.5692
theta[40]	-0.4356
theta[41]	-0.1546
theta[42]	0.05195
theta[43]	-0.5695
theta[44]	0.04126
theta[45]	0.0358
theta[46]	0.3298
theta[47]	-0.1729
theta[48]	-0.1832
theta[49]	0.06336
theta[50]	-0.3131
theta[51]	0.09779
theta[52]	0.631
theta[53]	-0.7442
theta[54]	0.05729
theta[55]	-1.234
theta[56]	0.3232
theta[57]	-0.06107
theta[58]	0.08594
theta[59]	0.9492
theta[60]	-0.4062
theta[61]	-0.167
theta[62]	0.07494
theta[63]	0.5637
theta[64]	-0.179
theta[65]	-0.3875
theta[66]	-1.073
theta[67]	0.4187
theta[68]	0.6747
theta[69]	-0.3512

NODE	ESTIMASI
theta[70]	0.03923
theta[71]	-0.7037
theta[72]	-0.2011
theta[73]	-0.7519
theta[74]	-0.5659
theta[75]	-0.719
theta[76]	-0.735
theta[77]	0.9
theta[78]	0.04903
theta[79]	-0.157
theta[80]	-0.7571
theta[81]	0.04959
theta[82]	0.3117
theta[83]	-0.3886
theta[84]	0.9131
theta[85]	0.5648
theta[86]	0.06937
theta[87]	-0.1525
theta[88]	-0.1718
theta[89]	0.2976
theta[90]	-1.031
theta[91]	0.599
theta[92]	0.293
theta[93]	0.0396
theta[94]	-0.5415
theta[95]	-0.1835
theta[96]	0.06812
theta[97]	-0.3478
theta[98]	-0.5753
theta[99]	-0.3598
theta[100]	0.5579
.....	.....
theta[601]	-0.3767
theta[602]	0.08103
theta[603]	-0.7402
theta[604]	-1.711
theta[605]	0.2982
theta[606]	-0.7005
theta[607]	0.6795
theta[608]	1.411

NODE	ESTIMASI
theta[609]	0.5781
theta[610]	-0.5652
theta[611]	-0.6846
theta[612]	0.3427
theta[613]	-0.2464
theta[614]	-0.3959
theta[615]	-0.1922
theta[616]	-0.1426
theta[617]	0.3761
theta[618]	0.0553
theta[619]	0.04902
theta[620]	-0.1757
theta[621]	-0.7414
theta[622]	0.6102
theta[623]	0.3361
theta[624]	0.278
theta[625]	-0.4876
theta[626]	0.5539
theta[627]	0.05544
theta[628]	0.2931
theta[629]	0.2926
theta[630]	-0.1792
theta[631]	0.2798
theta[632]	0.545
theta[633]	0.03684
theta[634]	0.9847
theta[635]	0.3275
theta[636]	0.04857
theta[637]	-0.3663
theta[638]	0.2884
theta[639]	0.6246
theta[640]	-0.1162
theta[641]	0.3822
theta[642]	0.315
theta[643]	0.05558
theta[644]	-0.2732
theta[645]	-0.5771
theta[646]	-0.8938
theta[647]	0.01543
theta[648]	-1.246

NODE	ESTIMASI
theta[649]	-0.5722
theta[650]	0.5652
theta[651]	-0.5715
theta[652]	0.04357
theta[653]	0.04185
theta[654]	0.3079
theta[655]	-1.115
theta[656]	0.2901
theta[657]	-0.2071
theta[658]	-0.1578
theta[659]	0.04215
theta[660]	-0.7097
theta[661]	-0.09479
theta[662]	0.5925
theta[663]	0.6475
theta[664]	0.9136
theta[665]	-0.5308
theta[666]	-0.7675
theta[667]	0.5765
theta[668]	0.3131
theta[669]	0.1232
theta[670]	0.3185
theta[671]	0.5955
theta[672]	0.5736
theta[673]	-0.3245
theta[674]	0.5795
theta[675]	0.933
theta[676]	0.5481
theta[677]	0.5719
theta[678]	-0.3722
theta[679]	0.2735
theta[680]	0.602
theta[681]	-0.3108
theta[682]	0.3357
theta[683]	-0.5755
theta[684]	0.9089
theta[685]	0.2806
theta[686]	0.5976
theta[687]	0.04671
theta[688]	0.602

<b>NODE</b>	<b>ESTIMASI</b>
theta[689]	1.043
theta[690]	-0.5647
theta[691]	0.5716
theta[692]	0.9177
theta[693]	0.03849
theta[694]	-0.5648
theta[695]	0.5758
theta[696]	-0.7421
theta[697]	-0.3237
theta[698]	0.8932

<b>NODE</b>	<b>ESTIMASI</b>
theta[699]	0.5711
theta[700]	1.326
theta[701]	0.0456
theta[702]	0.6042
theta[703]	-0.3556
theta[704]	0.2886
theta[705]	0.6296
theta[706]	-1.375
theta[707]	-0.2763
theta[708]	0.9283

<b>NODE</b>	<b>ESTIMASI</b>
theta[709]	0.9524
theta[710]	0.6395
theta[711]	-1.047
theta[712]	0.3413
theta[713]	-0.04756
theta[714]	0.04044
theta[715]	-0.164
theta[716]	1.422
theta[717]	0.3064

**Lampiran 29. Hasil Estimasi Parameter Data Empiris (Model Simultan 2 Parameter)**

NODE	ESTIMASI
a[1]	0.4899
a[2]	0.3
a[3]	0.2676
a[4]	0.3682
a[5]	0.7721
a[6]	0.9789
a[7]	0.7387
a[8]	1.345
a[9]	0.7485
a[10]	1.184
a[11]	1.214
a[12]	0.4869
a[13]	0.6909
a[14]	0.463
a[15]	0.4886
a[16]	0.4798
a[17]	0.6631
a[18]	1.031
a[19]	0.3342
a[20]	0.6997
a[21]	0.2574
b[1]	-3.741
b[2]	-4.274
b[3]	3.499
b[4]	-4.054
b[5]	-3.926
b[6]	-3.535
b[7]	-2.183
b[8]	-2.499
b[9]	-3.017
b[10]	-2.954
b[11]	-2.417
b[12]	-1.978
b[13]	-2.676
b[14]	-0.804
b[15]	2.608
b[16]	-2.615

NODE	ESTIMASI
b[17]	-1.11
b[18]	-0.9389
b[19]	-1.773
b[20]	-2.949
b[21]	0.01397
sigma	0.6858
tau[1]	0.9198
tau[2]	0.2508
tau[3]	0.423
tau[4]	0.6022
tau[5]	0.1835
tau[6]	0.9201
tau[7]	0.5773
tau[8]	0.9482
tau[9]	1.788
tau[10]	0.3498
tau[11]	0.7151
tau[12]	0.4141
tau[13]	0.3986
tau[14]	0.983
tau[15]	1.223
tau[16]	0.2912
tau[17]	0.3721
tau[18]	0.3166
tau[19]	0.7343
tau[20]	0.5533
tau[21]	0.6896
tau[22]	0.3714
tau[23]	0.5686
tau[24]	0.4575
tau[25]	1.161
tau[26]	1.008
tau[27]	0.7566
tau[28]	0.2578
tau[29]	0.9822
tau[30]	0.2974
tau[31]	0.464

NODE	ESTIMASI
tau[32]	0.627
tau[33]	0.2409
tau[34]	1.039
tau[35]	0.5866
tau[36]	0.4952
tau[37]	0.2842
tau[38]	0.1857
tau[39]	0.5355
tau[40]	1.959
tau[41]	0.3604
tau[42]	0.3721
tau[43]	0.3174
tau[44]	0.2665
tau[45]	0.5544
tau[46]	1.135
tau[47]	0.32
tau[48]	0.3727
tau[49]	0.9281
tau[50]	0.8438
tau[51]	1.095
tau[52]	0.7786
tau[53]	0.3028
tau[54]	0.6105
tau[55]	0.4829
tau[56]	0.6814
tau[57]	2.032
tau[58]	1.054
tau[59]	0.5782
tau[60]	0.2215
tau[61]	0.2705
tau[62]	1.01
tau[63]	0.1864
tau[64]	0.5108
tau[65]	0.556
tau[66]	0.3202
tau[67]	0.8289
tau[68]	0.9498

NODE	ESTIMASI
tau[69]	0.5125
tau[70]	0.341
tau[71]	1.145
tau[72]	0.2984
tau[73]	0.5229
tau[74]	0.7546
tau[75]	0.8745
tau[76]	0.2724
tau[77]	0.5032
tau[78]	0.5675
tau[79]	1.005
tau[80]	0.1779
tau[81]	0.292
tau[82]	0.38
tau[83]	0.2002
tau[84]	0.376
tau[85]	0.2085
tau[86]	0.4538
tau[87]	0.9066
tau[88]	0.3621
tau[89]	0.9206
tau[90]	0.8405
tau[91]	0.2588
tau[92]	0.2958
tau[93]	0.2504
tau[94]	0.2727
tau[95]	0.3198
tau[96]	0.4949
tau[97]	0.8475
tau[98]	0.2634
tau[99]	0.5951
tau[100]	0.2297
.....	.....
tau[601]	0.3558
tau[602]	0.7572
tau[603]	0.511
tau[604]	0.2299
tau[605]	0.2791
tau[606]	1.152
tau[607]	0.762

NODE	ESTIMASI
tau[608]	0.628
tau[609]	0.1998
tau[610]	0.36
tau[611]	1.272
tau[612]	0.9831
tau[613]	1.378
tau[614]	0.3389
tau[615]	0.2283
tau[616]	0.8193
tau[617]	1.194
tau[618]	0.2832
tau[619]	0.988
tau[620]	0.7056
tau[621]	0.6547
tau[622]	1.061
tau[623]	0.3387
tau[624]	0.1766
tau[625]	1.052
tau[626]	0.2086
tau[627]	0.656
tau[628]	0.206
tau[629]	0.3255
tau[630]	0.5449
tau[631]	0.1784
tau[632]	0.2787
tau[633]	0.2235
tau[634]	0.7762
tau[635]	1.212
tau[636]	0.475
tau[637]	0.4356
tau[638]	0.4337
tau[639]	1.063
tau[640]	0.4962
tau[641]	1.51
tau[642]	0.7046
tau[643]	0.6141
tau[644]	1.942
tau[645]	0.4253
tau[646]	0.537
tau[647]	0.1897

NODE	ESTIMASI
tau[648]	0.169
tau[649]	0.3088
tau[650]	0.3278
tau[651]	0.4529
tau[652]	0.1544
tau[653]	0.7158
tau[654]	0.1929
tau[655]	1.971
tau[656]	0.4018
tau[657]	0.1863
tau[658]	0.7661
tau[659]	0.3671
tau[660]	0.6517
tau[661]	2.571
tau[662]	0.9943
tau[663]	0.6688
tau[664]	0.3376
tau[665]	0.9623
tau[666]	0.2223
tau[667]	0.1661
tau[668]	0.3727
tau[669]	0.9004
tau[670]	0.3307
tau[671]	0.4342
tau[672]	0.2903
tau[673]	1.156
tau[674]	0.6764
tau[675]	0.3827
tau[676]	0.2286
tau[677]	0.3318
tau[678]	0.679
tau[679]	0.2472
tau[680]	0.8235
tau[681]	1.608
tau[682]	0.4906
tau[683]	0.373
tau[684]	0.3699
tau[685]	0.3741
tau[686]	0.6939
tau[687]	0.4101

NODE	ESTIMASI
tau[688]	0.4918
tau[689]	1.297
tau[690]	0.3739
tau[691]	0.3001
tau[692]	0.7668
tau[693]	0.4678
tau[694]	0.4265
tau[695]	0.677
tau[696]	0.2121
tau[697]	0.9659
tau[698]	0.4945
tau[699]	0.4729
tau[700]	0.4054
tau[701]	0.4831
tau[702]	0.6701
tau[703]	0.2257
tau[704]	0.3168
tau[705]	1.13
tau[706]	0.3003
tau[707]	1.616
tau[708]	0.4329
tau[709]	0.644
tau[710]	1.752
tau[711]	0.3615
tau[712]	1.106
tau[713]	1.593
tau[714]	0.3708
tau[715]	0.5748
tau[716]	0.7817
tau[717]	0.2784
theta[1]	1.212
theta[2]	-0.8605
theta[3]	0.2378
theta[4]	0.003021
theta[5]	-0.2589
theta[6]	0.2266
theta[7]	-1.561
theta[8]	1.183
theta[9]	1.738
theta[10]	-1.415

NODE	ESTIMASI
theta[11]	1.393
theta[12]	-0.6097
theta[13]	-0.06249
theta[14]	-0.3051
theta[15]	0.1623
theta[16]	-1.124
theta[17]	1.014
theta[18]	-0.1413
theta[19]	0.8947
theta[20]	1.524
theta[21]	-1.82
theta[22]	-1.333
theta[23]	0.2593
theta[24]	0.7947
theta[25]	-2.135
theta[26]	0.9392
theta[27]	0.5726
theta[28]	-0.4662
theta[29]	-0.0701
theta[30]	-0.361
theta[31]	0.5086
theta[32]	-1.17
theta[33]	0.03388
theta[34]	-0.07458
theta[35]	-0.7016
theta[36]	1.059
theta[37]	-0.7902
theta[38]	-0.26
theta[39]	-0.6313
theta[40]	0.2875
theta[41]	-0.5901
theta[42]	-0.1959
theta[43]	-1.018
theta[44]	0.1033
theta[45]	0.1628
theta[46]	0.5751
theta[47]	-0.4432
theta[48]	-0.318
theta[49]	0.4492
theta[50]	-0.3429

NODE	ESTIMASI
theta[51]	0.607
theta[52]	0.7727
theta[53]	-1.131
theta[54]	0.2738
theta[55]	-2.218
theta[56]	0.2786
theta[57]	1.116
theta[58]	0.3189
theta[59]	0.9189
theta[60]	-0.874
theta[61]	-0.1867
theta[62]	0.1976
theta[63]	0.4902
theta[64]	0.1193
theta[65]	-0.4315
theta[66]	-1.564
theta[67]	1.042
theta[68]	1.055
theta[69]	-0.5874
theta[70]	0.0463
theta[71]	-0.2704
theta[72]	-0.5582
theta[73]	-0.5391
theta[74]	-0.6387
theta[75]	-0.52
theta[76]	-1.202
theta[77]	1.243
theta[78]	0.5018
theta[79]	0.4059
theta[80]	-1.274
theta[81]	0.0721
theta[82]	0.5475
theta[83]	-0.5939
theta[84]	0.9869
theta[85]	0.3537
theta[86]	-0.3234
theta[87]	0.2406
theta[88]	-0.4482
theta[89]	0.3571
theta[90]	-1.63

NODE	ESTIMASI
theta[91]	0.2199
theta[92]	0.4154
theta[93]	0.2193
theta[94]	-1.175
theta[95]	-0.3845
theta[96]	-0.07686
theta[97]	-0.1949
theta[98]	-0.961
theta[99]	-0.5723
theta[100]	0.6297
.....	.....
theta[601]	-0.8221
theta[602]	0.6264
theta[603]	-1.023
theta[604]	-2.784
theta[605]	-0.05103
theta[606]	-0.8574
theta[607]	1.059
theta[608]	1.682
theta[609]	0.5429
theta[610]	-0.7236
theta[611]	-0.2146
theta[612]	0.9843
theta[613]	0.3757
theta[614]	-0.6407
theta[615]	-0.7794
theta[616]	-0.2173
theta[617]	0.8587
theta[618]	0.1836
theta[619]	0.4113
theta[620]	-0.2736
theta[621]	-0.9144
theta[622]	1.248
theta[623]	0.4841
theta[624]	0.2636
theta[625]	-0.302
theta[626]	0.7286
theta[627]	0.441
theta[628]	0.1337
theta[629]	0.228

NODE	ESTIMASI
theta[630]	-0.2605
theta[631]	-0.2695
theta[632]	0.3891
theta[633]	0.09803
theta[634]	1.28
theta[635]	0.6575
theta[636]	-0.4826
theta[637]	-0.6279
theta[638]	0.4778
theta[639]	1.292
theta[640]	-0.208
theta[641]	1.304
theta[642]	0.4343
theta[643]	-0.06576
theta[644]	0.8502
theta[645]	-1.001
theta[646]	-1.479
theta[647]	-0.5048
theta[648]	-2.159
theta[649]	-0.8194
theta[650]	0.6006
theta[651]	-0.7395
theta[652]	-0.2688
theta[653]	0.5128
theta[654]	0.5043
theta[655]	-0.1068
theta[656]	0.2531
theta[657]	-1.032
theta[658]	0.06432
theta[659]	0.05856
theta[660]	-0.7792
theta[661]	1.626
theta[662]	1.215
theta[663]	0.833
theta[664]	0.8822
theta[665]	-0.3863
theta[666]	-1.031
theta[667]	0.5412
theta[668]	-0.00118
theta[669]	0.4494

NODE	ESTIMASI
theta[670]	0.3248
theta[671]	0.7702
theta[672]	0.4183
theta[673]	0.07731
theta[674]	0.3688
theta[675]	1.046
theta[676]	0.7103
theta[677]	0.2526
theta[678]	-0.3595
theta[679]	0.3848
theta[680]	1.129
theta[681]	0.2511
theta[682]	-0.124
theta[683]	-0.7295
theta[684]	1.029
theta[685]	0.5175
theta[686]	0.971
theta[687]	0.2667
theta[688]	0.6241
theta[689]	1.714
theta[690]	-0.9326
theta[691]	0.4283
theta[692]	1.26
theta[693]	-0.379
theta[694]	-0.9547
theta[695]	0.9873
theta[696]	-1.379
theta[697]	-0.09295
theta[698]	1.06
theta[699]	0.8085
theta[700]	1.465
theta[701]	0.1857
theta[702]	0.9581
theta[703]	-0.6163
theta[704]	0.3107
theta[705]	1.154
theta[706]	-2.331
theta[707]	0.6767
theta[708]	1.04
theta[709]	1.194

NODE	ESTIMASI
theta[710]	1.634
theta[711]	-1.601
theta[712]	0.4131
theta[713]	1.14
theta[714]	0.2377
theta[715]	-0.2272
theta[716]	1.526
theta[717]	0.3141
xi[1]	0.816
xi[2]	0.927

NODE	ESTIMASI
xi[3]	2.56
xi[4]	0.916
xi[5]	0.609
xi[6]	0.349
xi[7]	1.489
xi[8]	1.531
xi[9]	0.658
xi[10]	0.768
xi[11]	1.934
xi[12]	1.285

NODE	ESTIMASI
xi[13]	0.087
xi[14]	1.984
xi[15]	2.816
xi[16]	0.774
xi[17]	1.128
xi[18]	1.076
xi[19]	1.964
xi[20]	0.293
xi[21]	1.508