SUMMARY DATA FOR MODEL 1

Inference for Stan model: anon_model_2e9be2d3d470d471df2282447ef7249e.
2 chains, each with iter=1000; warmup=500; thin=1;
post-warmup draws per chain=500, total post-warmup draws=1000.

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
a[1]	6.84	0.33	2.75	1.37	4.86	6.82	8.69	12.26	71	1.03
a[2]	10.93	0.29	2.8	5.39	9.09	10.93	12.9	16.21	90	1.03
a[3]	8.51	0.26	2.39	3.99	6.85	8.54	10.19	13.12	82	1.03
a[4]	-11.28	0.29	3.05	-17.06	-13.37	-11.3	-9.21	-4.78	107	1.01
a[5]	15.61	0.32	3.04	9.81	13.47	15.72	17.71	21.42	90	1.03
a[6]	-9.25	0.52	4.53	-17.76	-12.4	-9.21	-6.24	-0.36	76	1.02
a[7]	-0.03	0.29	3.4	-7.1	-2.15	0.08	2.05	6.72	142	1.02
a[8]	-3.33	0.28	2.63	-8.5	-5.12	-3.22	-1.61	2.0	91	1.02
a[9]	-2.93	0.27	2.31	-7.35	-4.45	-2.92	-1.36	1.69	74	1.04
a[10]	-14.17	0.32	3.53	-21.45	-16.53	-14.01	-11.71	-7.5	118	1.02
a[11]	-1.94	0.27	2.56	-6.66	-3.67	-1.93	-0.26	2.98	93	1.03
a[12]	-2.12	0.3	2.49	-7.0	-3.86	-1.98	-0.48	2.96	70	1.03
a[13]	2.5	0.3	2.42	-2.35	0.96	2.6	4.1	7.12	67	1.04
a[14]	0.65	0.35	2.97	-5.26	-1.36	0.72	2.57	6.52	73	1.03
a[15]	-3.26	0.3	2.76	-8.47	-5.16	-3.29	-1.35	2.18	86	1.02
a[16]	36.86	0.34	2.85	31.42	34.92	36.97	38.69	42.17	71	1.03
a[17]	2.31	0.37	3.92	-5.26	-0.31	2.25	4.82	9.9	115	1.02
a[18]	16.68	0.35	2.79	11.33	14.84	16.67	18.52	22.38	63	1.04
a[19]	-6.15	0.33	2.96	-12.03	-8.15	-6.05	-4.04	-0.7	79	1.03
a[20]	9.67	0.33	3.16	3.62	7.52	9.65	11.86	15.88	93	1.02
a[21]	-15.65	0.34	3.27	-22.08	-17.91	-15.51	-13.29	-9.73	95	1.01
a[22]	18.76	0.32	3.28	12.37	16.52	18.82	21.05	25.05	102	1.04
a[23]	11.78	0.29	2.43	6.91	10.19	11.96	13.52	16.26	72	1.04
a[24]	1.16	0.35	3.35	-5.07	-1.27	1.2	3.5	7.87	89	1.03
a[25]	5.82	0.28	2.71	0.51	3.92	5.96	7.68	10.95	96	1.04
a[26]	25.83	0.44	4.24	17.64	22.89	25.7	28.82	34.1	94	1.02
a[27]	27.92	0.3	2.74	22.86	26.01	27.85	29.9	33.29	82	1.02
a[28]	7.74	0.35	3.04	1.65	5.7	7.72	9.86	13.37	75	1.03
a[29]	-23.35	0.44	3.83	-30.82	-26.01	-23.32	-20.7	-15.92	77	1.02
a[30]	22.71	0.23	3.05	17.0	20.45	22.68	24.89	28.61	173	1.01
a[31]	7.5	0.25	2.54	2.35	5.87	7.52	9.15	12.29	100	1.02
a[32]	6.6	0.34	2.87	0.87	4.64	6.56	8.61	11.97	70	1.03
a[33]	0.33	0.24	2.62	-4.95	-1.39	0.26	2.11	5.36	115	1.02
a[34]	11.62	0.4	4.05	3.54	9.01	11.69	14.49	19.17	101	1.01
a[35]	-9.35	0.31	3.73	-16.69	-11.78	-9.44	-6.78	-2.25	149	1.01
a[36]	0.38	0.32	2.56	-4.85	-1.3	0.45	2.06	5.63	64	1.03
a[37]	20.22	0.36	2.83	14.7	18.27	20.27	22.13	25.75	61	1.04
b[1]	-0.42	3.2e-3	0.05	-0.53	-0.46	-0.43	-0.39	-0.32	276	1.02
b[2]	0.73	9.9e-3	0.08	0.56	0.67	0.73	0.78	0.88	68	1.02
mu_a	0.78	0.05	1.0	-1.17	0.09	0.78	1.54	2.59	356	1.0
sigma_a	14.1	0.1	1.94	10.94	12.82	13.89	15.17	18.98	363	1.02
sigma_y	6.71	7.7e-3	0.21	6.33	6.57	6.71	6.84	7.11	717	1.0
y_hat[1]	21.54	0.05	1.64	18.24	20.41	21.55	22.71	24.79	1054	1.0
y_hat[2]	21.36	0.05	1.63	18.09	20.21	21.38	22.52	24.57	1170	1.0
y_hat[3]	16.38	0.05	1.56	13.37	15.25	16.39	17.41	19.4	822	1.0
y_hat[4]	17.7	0.04	1.54	14.78	16.59	17.71	18.74	20.59	1881	1.0
y_hat[5]	17.8	0.03	1.53	14.89	16.67	17.84	18.84	20.69	2047	1.0
y_hat[6]	17.73	0.03	1.53	14.84	16.61	17.76	18.78	20.62	2142	1.0
y_hat[7]	17.43	0.03	1.52	14.52	16.33	17.45	18.46	20.29	2135	1.0
y_hat[8]	17.18	0.03	1.52	14.28	16.09	17.2	18.2	20.02	2179	1.0
y_hat[9]	18.03	0.03	1.52	15.17	16.96	18.04	19.09	20.89	2228	1.0
y_hat[10]	17.64	0.03	1.52	14.75	16.56	17.64	18.68	20.49	2247	1.0
y_hat[11]	16.09	0.03	1.52	13.25	15.04	16.12	17.12	18.94	2176	1.0
y_hat[12]	16.95	0.03	1.52	14.04	15.91	16.97	18.0	19.8	2188	1.0
y_hat[13]	16.05	0.03	1.52	13.17	15.02	16.08	17.08	18.9	2143	1.0
y_hat[14]	15.43	0.04	1.54	12.57	14.39	15.46	16.47	18.35	1930	1.0
y_hat[15]	14.96	0.04	1.57	11.97	13.89	14.99	16.02	17.92	1590	1.0
y_hat[16]	14.27	0.04	1.58	11.24	13.19	14.3	15.33	17.23	1484	1.0
y_hat[17]	13.06	0.05	1.62	9.87	11.99	13.04	14.14	16.07	1247	1.0
y_hat[18]	13.18	0.05	1.65	9.95	12.06	13.18	14.3	16.27	1084	1.0
y_hat[19]	13.63	0.05	1.67	10.38	12.48	13.64	14.77	16.78	974	1.0
y_hat[20]	17.75	0.05	1.78	14.26	16.61	17.74	18.93	21.25	1288	1.0
y_hat[21]	17.26	0.05	1.78	13.77	16.14	17.25	18.43	20.73	1238	1.0
y_hat[22]	19.08	0.04	1.77	15.66	17.97	19.07	20.24	22.52	1796	1.0
y_hat[23]	21.33	0.05	1.81	17.74	20.21	21.3	22.51	24.78	1278	1.0

y_hat[24]	23.65	0.07	1.89	19.94	22.5	23.65	24.88	27.27	691	1.0
y_hat[25]	18.51	0.04	1.75	15.06	17.46	18.52	19.65	21.9	2244	1.0
y_hat[26]	17.73	0.03	1.74	14.36	16.7	17.72	18.84	21.09	2572	1.0
y_hat[27]	16.46	0.03	1.73	13.12	15.43	16.42	17.54	19.78	2937	1.0
y_hat[28]	15.92	0.03	1.73	12.57	14.89	15.9	17.0	19.18	2979	1.0
y_hat[29]	15.56	0.03	1.73	12.18	14.54	15.53	16.65	18.84	3014	1.0
y_hat[30]	15.87	0.03	1.73	12.49	14.84	15.85	16.97	19.15	3008	1.0
y_hat[31]	15.53	0.03	1.73	12.14	14.49	15.53	16.64	18.83	2975	1.0
y_hat[32]	15.32	0.03	1.73	11.95	14.29	15.32	16.42	18.66	2944	1.0
y_hat[33]	14.14	0.03	1.75	10.8	13.11	14.14	15.27	17.54	2627	1.0
y_hat[34]	13.96	0.04	1.75	10.61	12.92	13.96	15.1	17.4	2513	1.0
y_hat[35]	17.31	0.04	1.46	14.59	16.36	17.29	18.23	20.43	1387	1.0
y_hat[36]	17.08	0.04	1.45	14.39	16.12	17.05	17.98	20.15	1526	1.0
y_hat[37]	16.92	0.04	1.44	14.24	15.96	16.89	17.83	19.98	1538	1.0
y_hat[38]	16.36	0.04	1.43	13.69	15.41	16.35	17.24	19.38	1560	1.0
y_hat[39]	15.55	0.03	1.42	12.87	14.59	15.53	16.44	18.55	1657	1.0
y_hat[40]	15.76	0.04	1.42	13.08	14.8	15.75	16.66	18.76	1626	1.0
y_hat[41]	15.53	0.03	1.42	12.86	14.58	15.51	16.41	18.52	1757	1.0
y_hat[42]	14.97	0.03	1.4	12.27	14.05	14.97	15.83	17.98	2046	1.0
y_hat[43]	14.59	0.03	1.4	11.86	13.68	14.6	15.48	17.58	2094	1.0
y_hat[44]	14.29	0.03	1.4	11.53	13.38	14.3	15.18	17.25	2129	1.0
y_hat[45]	13.83	0.03	1.4	11.07	12.93	13.85	14.73	16.77	2017	1.0
y_hat[46]	13.39	0.03	1.41	10.6	12.49	13.41	14.29	16.31	1886	1.0
y_hat[47]	14.18	0.03	1.4	11.42	13.28	14.19	15.08	17.14	2108	1.0
y_hat[48]	14.71	0.03	1.4	11.91	13.78	14.69	15.58	17.65	2253	1.0
y_hat[49]	16.08	0.03	1.41	13.27	15.13	16.06	17.01	19.04	1812	1.0
y_hat[50]	15.14	0.03	1.4	12.33	14.21	15.13	16.06	18.12	2110	1.0
y_hat[51]	14.8	0.03	1.41	11.94	13.87	14.79	15.74	17.71	1938	1.0
y_hat[52]	15.04	0.03	1.42	12.15	14.1	15.02	16.0	17.93	1646	1.0
y_hat[53]	14.13	0.04	1.42	11.21	13.2	14.1	15.08	17.0	1625	1.0
y_hat[54]	12.88	0.04	1.43	9.99	11.95	12.87	13.84	15.78	1620	1.0
y_hat[55]	12.21	0.04	1.45	9.24	11.26	12.2	13.17	15.06	1434	1.0
y_hat[56]	11.46	0.04	1.48	8.35	10.47	11.48	12.42	14.28	1237	1.0
y_hat[57]	2.47	0.07	2.16	-1.69	1.02	2.41	3.9	6.9	952	1.0
lp__	-1525	0.29	4.99	-1537	-1528	-1525	-1522	-1517	292	1.0

SUMMARY DATA FOR MODEL 2

Inference for Stan model: anon_model_2e9be2d3d470d471df2282447ef7249e.
2 chains, each with iter=1000; warmup=500; thin=1;
post-warmup draws per chain=500, total post-warmup draws=1000.

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
a[1]	7.31	0.39	2.99	1.75	5.22	7.24	9.64	12.84	58	1.0
a[2]	11.37	0.35	2.94	5.24	9.35	11.48	13.46	16.71	70	1.0
a[3]	8.85	0.31	2.53	3.97	7.02	8.84	10.71	13.53	65	1.0
a[4]	-10.94	0.39	3.33	-17.89	-13.26	-10.82	-8.61	-4.74	75	1.0
a[5]	16.17	0.41	3.37	9.78	13.78	16.31	18.6	22.59	68	1.0
a[6]	-8.53	0.66	5.08	-18.69	-12.03	-8.3	-4.75	1.04	60	1.0
a[7]	0.35	0.38	3.59	-6.53	-2.08	0.39	2.94	7.17	89	1.0
a[8]	-2.9	0.32	2.84	-8.4	-4.86	-2.86	-0.96	2.72	79	1.0
a[9]	-2.53	0.32	2.5	-7.32	-4.27	-2.6	-0.69	2.15	60	1.0
a[10]	-13.7	0.43	4.06	-21.17	-16.45	-13.67	-11.1	-5.29	90	1.0
a[11]	-1.54	0.28	2.73	-6.73	-3.28	-1.49	0.25	3.93	96	1.0
a[12]	-1.7	0.35	2.76	-7.08	-3.7	-1.67	0.27	3.48	60	1.0
a[13]	2.98	0.35	2.65	-1.92	1.04	2.96	4.9	7.82	56	1.0
a[14]	1.17	0.42	3.28	-5.09	-1.2	1.23	3.58	7.21	60	1.0
a[15]	-2.73	0.38	3.01	-8.78	-4.71	-2.7	-0.51	2.57	64	1.0
a[16]	37.31	0.43	3.25	30.74	35.08	37.42	39.71	43.15	58	1.0
a[17]	2.66	0.43	4.0	-5.63	-0.02	2.81	5.48	10.11	84	1.0
a[18]	17.25	0.44	3.14	11.11	15.03	17.19	19.69	22.56	52	1.0
a[19]	-5.73	0.38	3.19	-11.81	-8.04	-5.59	-3.37	0.06	70	1.0
a[20]	10.11	0.41	3.55	2.97	7.83	10.05	12.61	16.81	75	1.0
a[21]	-15.16	0.44	3.64	-22.5	-17.75	-14.97	-12.51	-8.68	68	1.0
a[22]	19.25	0.33	3.16	12.72	17.12	19.29	21.48	25.18	94	1.0
a[23]	12.24	0.34	2.66	6.59	10.39	12.25	14.2	17.09	63	1.0
a[24]	1.61	0.41	3.4	-5.15	-0.77	1.7	4.04	8.02	70	1.0
a[25]	6.22	0.3	2.71	0.99	4.3	6.3	8.05	11.23	82	1.0
a[26]	26.42	0.59	4.69	17.18	23.12	26.34	29.76	35.19	63	1.0
a[27]	28.39	0.41	3.23	22.11	26.1	28.42	30.8	34.32	63	1.0
a[28]	8.24	0.45	3.36	1.74	5.88	8.32	10.64	14.61	55	1.0

a[29]	-22.79	0.55	4.32	-31.45	-25.79	-22.65	-19.64	-14.52	62	1.0
a[30]	23.06	0.32	3.17	16.91	20.84	23.19	25.34	28.96	100	1.0
a[31]	7.87	0.32	2.65	2.65	5.96	7.94	9.79	12.74	69	1.0
a[32]	7.02	0.41	3.15	1.21	4.77	7.0	9.3	12.87	59	1.0
a[33]	0.68	0.28	2.7	-5.04	-1.2	0.73	2.58	5.75	92	1.0
a[34]	12.17	0.53	4.47	3.58	9.17	12.24	15.44	20.8	70	1.0
a[35]	-8.95	0.38	4.06	-16.84	-11.56	-9.1	-6.08	-0.97	115	1.0
a[36]	0.9	0.4	2.93	-4.95	-1.2	0.97	3.03	6.36	53	1.0
a[37]	20.87	0.45	3.16	14.81	18.39	21.08	23.27	26.31	50	1.0
b[1]	-0.43	2.6e-3	0.05	-0.52	-0.46	-0.43	-0.39	-0.32	366	1.0
b[2]	0.71	0.01	0.1	0.54	0.64	0.71	0.78	0.9	51	1.0
mu_a	0.76	0.05	0.99	-1.23	0.11	0.79	1.41	2.71	370	1.0
sigma_a	14.33	0.14	2.07	10.93	12.87	14.13	15.46	19.36	219	1.0
sigma_y	6.71	6.6e-3	0.19	6.33	6.59	6.71	6.83	7.11	857	1.0
y_hat[1]	21.56	0.05	1.62	18.57	20.39	21.54	22.67	24.81	1177	1.0
y_hat[2]	21.37	0.05	1.6	18.4	20.21	21.35	22.49	24.58	1232	1.0
y_hat[3]	16.42	0.06	1.54	13.61	15.37	16.37	17.48	19.57	647	1.0
y_hat[4]	17.71	0.04	1.51	14.9	16.7	17.64	18.78	20.72	1513	1.0
y_hat[5]	17.8	0.04	1.51	14.94	16.79	17.72	18.88	20.8	1690	1.0
y_hat[6]	17.72	0.04	1.5	14.88	16.71	17.67	18.81	20.74	1784	1.0
y_hat[7]	17.42	0.04	1.5	14.56	16.42	17.35	18.49	20.39	1761	1.0
y_hat[8]	17.17	0.04	1.5	14.28	16.16	17.11	18.24	20.16	1803	1.0
y_hat[9]	18.0	0.03	1.5	15.14	16.97	17.93	19.09	21.01	1856	1.0
y_hat[10]	17.61	0.03	1.5	14.77	16.59	17.55	18.7	20.62	1897	1.0
y_hat[11]	16.07	0.03	1.49	13.21	15.06	16.03	17.14	19.07	1851	1.0
y_hat[12]	16.9	0.03	1.49	14.04	15.87	16.85	17.97	19.82	1925	1.0
y_hat[13]	16.01	0.03	1.49	13.13	14.98	15.97	17.07	18.91	1962	1.0
y_hat[14]	15.37	0.03	1.5	12.44	14.35	15.36	16.42	18.25	1897	1.0
y_hat[15]	14.88	0.04	1.52	11.99	13.86	14.89	15.95	17.74	1669	1.0
y_hat[16]	14.2	0.04	1.53	11.28	13.16	14.22	15.27	17.07	1633	1.0
y_hat[17]	12.98	0.04	1.56	10.06	11.93	13.0	14.1	15.92	1457	1.0
y_hat[18]	13.08	0.04	1.59	10.08	12.02	13.1	14.2	16.08	1269	1.0
y_hat[19]	13.5	0.05	1.6	10.4	12.48	13.52	14.66	16.53	1080	1.0
y_hat[20]	17.8	0.06	1.76	14.38	16.58	17.89	19.03	21.23	926	1.0
y_hat[21]	17.31	0.06	1.76	13.87	16.1	17.38	18.54	20.77	775	1.0
y_hat[22]	19.09	0.04	1.74	15.72	17.88	19.16	20.27	22.43	1686	1.0
y_hat[23]	21.28	0.05	1.78	17.74	20.04	21.27	22.51	24.86	1087	1.0
y_hat[24]	23.55	0.1	1.89	19.8	22.27	23.51	24.82	27.47	385	1.0
y_hat[25]	18.49	0.04	1.72	15.18	17.29	18.55	19.67	21.87	1911	1.0
y_hat[26]	17.72	0.04	1.72	14.46	16.54	17.79	18.89	21.07	2030	1.0
y_hat[27]	16.45	0.04	1.71	13.17	15.26	16.52	17.61	19.94	2060	1.0
y_hat[28]	15.91	0.04	1.72	12.62	14.77	15.95	17.05	19.38	2038	1.0
y_hat[29]	15.54	0.04	1.72	12.24	14.4	15.55	16.68	18.99	2110	1.0
y_hat[30]	15.84	0.04	1.72	12.56	14.7	15.87	16.98	19.29	2228	1.0
y_hat[31]	15.5	0.04	1.72	12.23	14.31	15.51	16.65	18.95	2228	1.0
y_hat[32]	15.29	0.04	1.72	12.05	14.08	15.29	16.44	18.75	2220	1.0
y_hat[33]	14.1	0.04	1.74	10.83	12.91	14.1	15.27	17.55	2092	1.0
y_hat[34]	13.92	0.04	1.74	10.66	12.72	13.91	15.1	17.39	2066	1.0
y_hat[35]	17.27	0.03	1.42	14.57	16.33	17.28	18.26	20.02	1809	1.0
y_hat[36]	17.03	0.03	1.41	14.35	16.09	17.04	17.99	19.73	2000	1.0
y_hat[37]	16.87	0.03	1.41	14.2	15.92	16.89	17.83	19.58	1984	1.0
y_hat[38]	16.32	0.03	1.4	13.64	15.38	16.31	17.27	19.06	1873	1.0
y_hat[39]	15.51	0.03	1.39	12.88	14.57	15.48	16.47	18.21	1794	1.0
y_hat[40]	15.73	0.03	1.39	13.09	14.78	15.71	16.68	18.43	1807	1.0
y_hat[41]	15.48	0.03	1.39	12.83	14.53	15.46	16.42	18.17	1958	1.0
y_hat[42]	14.91	0.03	1.38	12.28	13.98	14.9	15.86	17.62	2319	1.0
y_hat[43]	14.53	0.03	1.38	11.89	13.6	14.5	15.48	17.2	2312	1.0
y_hat[44]	14.22	0.03	1.38	11.58	13.31	14.2	15.16	16.88	2334	1.0
y_hat[45]	13.77	0.03	1.38	11.08	12.84	13.76	14.75	16.43	2007	1.0
y_hat[46]	13.34	0.03	1.39	10.63	12.39	13.29	14.3	15.98	1706	1.0
y_hat[47]	14.12	0.03	1.38	11.47	13.2	14.09	15.06	16.77	2263	1.0
y_hat[48]	14.62	0.03	1.38	12.0	13.7	14.62	15.54	17.3	2835	1.0
y_hat[49]	15.96	0.03	1.39	13.31	15.04	15.97	16.9	18.66	1805	1.0
y_hat[50]	15.04	0.03	1.38	12.36	14.12	15.06	15.97	17.75	2549	1.0
y_hat[51]	14.69	0.03	1.39	12.01	13.77	14.69	15.63	17.46	2288	1.0
y_hat[52]	14.92	0.03	1.4	12.22	13.97	14.95	15.86	17.69	1727	1.0
y_hat[53]	14.0	0.03	1.4	11.28	13.06	14.0	14.98	16.79	1920	1.0
y_hat[54]	12.77	0.03	1.41	10.02	11.84	12.77	13.77	15.54	2156	1.0
y_hat[55]	12.1	0.03	1.43	9.34	11.14	12.07	13.14	14.87	1945	1.0
y_hat[56]	11.34	0.03	1.45	8.53	10.37	11.31	12.42	14.08	1742	1.0
y_hat[57]	2.48	0.08	2.11	-1.79	1.12	2.44	3.95	6.6	702	1.0
lp__	-1525	0.26	4.89	-1537	-1528	-1525	-1522	-1517	351	1.0