

Start

sample_submission.isnull.sum

id 0

air_store_id 0

visit_datetime 0

visit_year 0

visit_month 0

visit_date 0

day_of_week 0

holiday_flg 0

visit_day 0

mnd_flg 0

weight 0

non_buis_day 0

air_genre_name 0

air_area_name 0

latitude 0

longitude 0

dtype: int64

sample_submission

	id	air_store_id	visit_datetime \
0	air_00a91d42b08b08d9_2017-04-23	air_00a91d42b08b08d9	2017-04-23
1	air_00a91d42b08b08d9_2017-04-24	air_00a91d42b08b08d9	2017-04-24
2	air_00a91d42b08b08d9_2017-04-25	air_00a91d42b08b08d9	2017-04-25
3	air_00a91d42b08b08d9_2017-04-26	air_00a91d42b08b08d9	2017-04-26
4	air_00a91d42b08b08d9_2017-04-27	air_00a91d42b08b08d9	2017-04-27
5	air_00a91d42b08b08d9_2017-04-28	air_00a91d42b08b08d9	2017-04-28
6	air_00a91d42b08b08d9_2017-04-29	air_00a91d42b08b08d9	2017-04-29
7	air_00a91d42b08b08d9_2017-04-30	air_00a91d42b08b08d9	2017-04-30

8	air_00a91d42b08b08d9_2017-05-01	air_00a91d42b08b08d9	2017-05-01
9	air_00a91d42b08b08d9_2017-05-02	air_00a91d42b08b08d9	2017-05-02
10	air_00a91d42b08b08d9_2017-05-03	air_00a91d42b08b08d9	2017-05-03
11	air_00a91d42b08b08d9_2017-05-04	air_00a91d42b08b08d9	2017-05-04
12	air_00a91d42b08b08d9_2017-05-05	air_00a91d42b08b08d9	2017-05-05
13	air_00a91d42b08b08d9_2017-05-06	air_00a91d42b08b08d9	2017-05-06
14	air_00a91d42b08b08d9_2017-05-07	air_00a91d42b08b08d9	2017-05-07
15	air_00a91d42b08b08d9_2017-05-08	air_00a91d42b08b08d9	2017-05-08
16	air_00a91d42b08b08d9_2017-05-09	air_00a91d42b08b08d9	2017-05-09
17	air_00a91d42b08b08d9_2017-05-10	air_00a91d42b08b08d9	2017-05-10
18	air_00a91d42b08b08d9_2017-05-11	air_00a91d42b08b08d9	2017-05-11
19	air_00a91d42b08b08d9_2017-05-12	air_00a91d42b08b08d9	2017-05-12
20	air_00a91d42b08b08d9_2017-05-13	air_00a91d42b08b08d9	2017-05-13
21	air_00a91d42b08b08d9_2017-05-14	air_00a91d42b08b08d9	2017-05-14
22	air_00a91d42b08b08d9_2017-05-15	air_00a91d42b08b08d9	2017-05-15
23	air_00a91d42b08b08d9_2017-05-16	air_00a91d42b08b08d9	2017-05-16
24	air_00a91d42b08b08d9_2017-05-17	air_00a91d42b08b08d9	2017-05-17
25	air_00a91d42b08b08d9_2017-05-18	air_00a91d42b08b08d9	2017-05-18
26	air_00a91d42b08b08d9_2017-05-19	air_00a91d42b08b08d9	2017-05-19
27	air_00a91d42b08b08d9_2017-05-20	air_00a91d42b08b08d9	2017-05-20
28	air_00a91d42b08b08d9_2017-05-21	air_00a91d42b08b08d9	2017-05-21
29	air_00a91d42b08b08d9_2017-05-22	air_00a91d42b08b08d9	2017-05-22
...
31989	air_fff68b929994bfbfd_2017-05-02	air_fff68b929994bfbfd	2017-05-02
31990	air_fff68b929994bfbfd_2017-05-03	air_fff68b929994bfbfd	2017-05-03
31991	air_fff68b929994bfbfd_2017-05-04	air_fff68b929994bfbfd	2017-05-04
31992	air_fff68b929994bfbfd_2017-05-05	air_fff68b929994bfbfd	2017-05-05
31993	air_fff68b929994bfbfd_2017-05-06	air_fff68b929994bfbfd	2017-05-06
31994	air_fff68b929994bfbfd_2017-05-07	air_fff68b929994bfbfd	2017-05-07

31995	air_fff68b929994bfb	d_2017-05-08	air_fff68b929994bfb	d	2017-05-08
31996	air_fff68b929994bfb	d_2017-05-09	air_fff68b929994bfb	d	2017-05-09
31997	air_fff68b929994bfb	d_2017-05-10	air_fff68b929994bfb	d	2017-05-10
31998	air_fff68b929994bfb	d_2017-05-11	air_fff68b929994bfb	d	2017-05-11
31999	air_fff68b929994bfb	d_2017-05-12	air_fff68b929994bfb	d	2017-05-12
32000	air_fff68b929994bfb	d_2017-05-13	air_fff68b929994bfb	d	2017-05-13
32001	air_fff68b929994bfb	d_2017-05-14	air_fff68b929994bfb	d	2017-05-14
32002	air_fff68b929994bfb	d_2017-05-15	air_fff68b929994bfb	d	2017-05-15
32003	air_fff68b929994bfb	d_2017-05-16	air_fff68b929994bfb	d	2017-05-16
32004	air_fff68b929994bfb	d_2017-05-17	air_fff68b929994bfb	d	2017-05-17
32005	air_fff68b929994bfb	d_2017-05-18	air_fff68b929994bfb	d	2017-05-18
32006	air_fff68b929994bfb	d_2017-05-19	air_fff68b929994bfb	d	2017-05-19
32007	air_fff68b929994bfb	d_2017-05-20	air_fff68b929994bfb	d	2017-05-20
32008	air_fff68b929994bfb	d_2017-05-21	air_fff68b929994bfb	d	2017-05-21
32009	air_fff68b929994bfb	d_2017-05-22	air_fff68b929994bfb	d	2017-05-22
32010	air_fff68b929994bfb	d_2017-05-23	air_fff68b929994bfb	d	2017-05-23
32011	air_fff68b929994bfb	d_2017-05-24	air_fff68b929994bfb	d	2017-05-24
32012	air_fff68b929994bfb	d_2017-05-25	air_fff68b929994bfb	d	2017-05-25
32013	air_fff68b929994bfb	d_2017-05-26	air_fff68b929994bfb	d	2017-05-26
32014	air_fff68b929994bfb	d_2017-05-27	air_fff68b929994bfb	d	2017-05-27
32015	air_fff68b929994bfb	d_2017-05-28	air_fff68b929994bfb	d	2017-05-28
32016	air_fff68b929994bfb	d_2017-05-29	air_fff68b929994bfb	d	2017-05-29
32017	air_fff68b929994bfb	d_2017-05-30	air_fff68b929994bfb	d	2017-05-30
32018	air_fff68b929994bfb	d_2017-05-31	air_fff68b929994bfb	d	2017-05-31

	visit_year	visit_month	visit_date	day_of_week	holiday_flg	visit_day \
0	2017	4	2017-04-23	Sunday	0	23
1	2017	4	2017-04-24	Monday	0	24
2	2017	4	2017-04-25	Tuesday	0	25

3	2017	4	2017-04-26	Wednesday	0	26
4	2017	4	2017-04-27	Thursday	0	27
5	2017	4	2017-04-28	Friday	0	28
6	2017	4	2017-04-29	Saturday	0	29
7	2017	4	2017-04-30	Sunday	0	30
8	2017	5	2017-05-01	Monday	0	01
9	2017	5	2017-05-02	Tuesday	0	02
10	2017	5	2017-05-03	Wednesday	1	03
11	2017	5	2017-05-04	Thursday	1	04
12	2017	5	2017-05-05	Friday	1	05
13	2017	5	2017-05-06	Saturday	0	06
14	2017	5	2017-05-07	Sunday	0	07
15	2017	5	2017-05-08	Monday	0	08
16	2017	5	2017-05-09	Tuesday	0	09
17	2017	5	2017-05-10	Wednesday	0	10
18	2017	5	2017-05-11	Thursday	0	11
19	2017	5	2017-05-12	Friday	0	12
20	2017	5	2017-05-13	Saturday	0	13
21	2017	5	2017-05-14	Sunday	0	14
22	2017	5	2017-05-15	Monday	0	15
23	2017	5	2017-05-16	Tuesday	0	16
24	2017	5	2017-05-17	Wednesday	0	17
25	2017	5	2017-05-18	Thursday	0	18
26	2017	5	2017-05-19	Friday	0	19
27	2017	5	2017-05-20	Saturday	0	20
28	2017	5	2017-05-21	Sunday	0	21
29	2017	5	2017-05-22	Monday	0	22
...
31989	2017	5	2017-05-02	Tuesday	0	02

31990	2017	5	2017-05-03	Wednesday	1	03
31991	2017	5	2017-05-04	Thursday	1	04
31992	2017	5	2017-05-05	Friday	1	05
31993	2017	5	2017-05-06	Saturday	0	06
31994	2017	5	2017-05-07	Sunday	0	07
31995	2017	5	2017-05-08	Monday	0	08
31996	2017	5	2017-05-09	Tuesday	0	09
31997	2017	5	2017-05-10	Wednesday	0	10
31998	2017	5	2017-05-11	Thursday	0	11
31999	2017	5	2017-05-12	Friday	0	12
32000	2017	5	2017-05-13	Saturday	0	13
32001	2017	5	2017-05-14	Sunday	0	14
32002	2017	5	2017-05-15	Monday	0	15
32003	2017	5	2017-05-16	Tuesday	0	16
32004	2017	5	2017-05-17	Wednesday	0	17
32005	2017	5	2017-05-18	Thursday	0	18
32006	2017	5	2017-05-19	Friday	0	19
32007	2017	5	2017-05-20	Saturday	0	20
32008	2017	5	2017-05-21	Sunday	0	21
32009	2017	5	2017-05-22	Monday	0	22
32010	2017	5	2017-05-23	Tuesday	0	23
32011	2017	5	2017-05-24	Wednesday	0	24
32012	2017	5	2017-05-25	Thursday	0	25
32013	2017	5	2017-05-26	Friday	0	26
32014	2017	5	2017-05-27	Saturday	0	27
32015	2017	5	2017-05-28	Sunday	0	28
32016	2017	5	2017-05-29	Monday	0	29
32017	2017	5	2017-05-30	Tuesday	0	30
32018	2017	5	2017-05-31	Wednesday	0	31

	mnd_flg	weight	non_buis_day	air_genre_name \
0	0	0.682692	True	Italian/French
1	0	0.689848	False	Italian/French
2	1	0.697064	False	Italian/French
3	1	0.704340	False	Italian/French
4	1	0.711677	False	Italian/French
5	1	0.719075	True	Italian/French
6	1	0.726534	True	Italian/French
7	1	0.734055	True	Italian/French
8	0	0.741638	False	Italian/French
9	0	0.749284	False	Italian/French
10	0	0.756993	True	Italian/French
11	0	0.764764	True	Italian/French
12	0	0.772600	True	Italian/French
13	0	0.780500	True	Italian/French
14	0	0.788464	True	Italian/French
15	0	0.796493	False	Italian/French
16	0	0.804587	False	Italian/French
17	0	0.812748	False	Italian/French
18	0	0.820974	False	Italian/French
19	0	0.829266	True	Italian/French
20	0	0.837626	True	Italian/French
21	0	0.846052	True	Italian/French
22	0	0.854547	False	Italian/French
23	0	0.863109	False	Italian/French
24	0	0.871740	False	Italian/French
25	0	0.880440	False	Italian/French
26	0	0.889210	True	Italian/French

27	0	0.898049	True	Italian/French
28	0	0.906958	True	Italian/French
29	0	0.915938	False	Italian/French
...
31989	0	0.749284	False	Bar/Cocktail
31990	0	0.756993	True	Bar/Cocktail
31991	0	0.764764	True	Bar/Cocktail
31992	0	0.772600	True	Bar/Cocktail
31993	0	0.780500	True	Bar/Cocktail
31994	0	0.788464	True	Bar/Cocktail
31995	0	0.796493	False	Bar/Cocktail
31996	0	0.804587	False	Bar/Cocktail
31997	0	0.812748	False	Bar/Cocktail
31998	0	0.820974	False	Bar/Cocktail
31999	0	0.829266	True	Bar/Cocktail
32000	0	0.837626	True	Bar/Cocktail
32001	0	0.846052	True	Bar/Cocktail
32002	0	0.854547	False	Bar/Cocktail
32003	0	0.863109	False	Bar/Cocktail
32004	0	0.871740	False	Bar/Cocktail
32005	0	0.880440	False	Bar/Cocktail
32006	0	0.889210	True	Bar/Cocktail
32007	0	0.898049	True	Bar/Cocktail
32008	0	0.906958	True	Bar/Cocktail
32009	0	0.915938	False	Bar/Cocktail
32010	0	0.924988	False	Bar/Cocktail
32011	0	0.934110	False	Bar/Cocktail
32012	1	0.943304	False	Bar/Cocktail
32013	1	0.952570	True	Bar/Cocktail

32014	1	0.961909	True	Bar/Cocktail
32015	1	0.971321	True	Bar/Cocktail
32016	1	0.980807	False	Bar/Cocktail
32017	1	0.990366	False	Bar/Cocktail
32018	1	1.000000	False	Bar/Cocktail

	air_area_name	latitude	longitude
0	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
1	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
2	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
3	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
4	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
5	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
6	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
7	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
8	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
9	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
10	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
11	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
12	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
13	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
14	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
15	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
16	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
17	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
18	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
19	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
20	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595
21	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595

22 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
23 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
24 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
25 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
26 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
27 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
28 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595
29 Tōkyō-to Chiyoda-ku Kudanminami 35.694003 139.753595

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31989 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31990 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31991 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31992 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31993 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31994 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31995 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31996 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31997 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31998 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
31999 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32000 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32001 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32002 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32003 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32004 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32005 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32006 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32007 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288
32008 Tōkyō-to Nakano-ku Nakano 35.708146 139.666288

32009	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32010	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32011	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32012	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32013	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32014	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32015	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32016	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32017	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288
32018	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288

[32019 rows x 16 columns]

df_ah_dh

	air_store_id	day_of_week	holiday_flg	visitors
0	air_00a91d42b08b08d9	Friday	0	36.406632
1	air_00a91d42b08b08d9	Monday	0	25.708588
2	air_00a91d42b08b08d9	Monday	1	21.000000
3	air_00a91d42b08b08d9	Saturday	0	14.398401
4	air_00a91d42b08b08d9	Sunday	0	2.000000
5	air_00a91d42b08b08d9	Thursday	0	31.962320
6	air_00a91d42b08b08d9	Tuesday	0	28.855747
7	air_00a91d42b08b08d9	Wednesday	0	29.444399
8	air_0164b9927d20bcc3	Friday	0	10.863860
9	air_0164b9927d20bcc3	Friday	1	15.766052
10	air_0164b9927d20bcc3	Monday	0	7.504048
11	air_0164b9927d20bcc3	Saturday	0	5.350766
12	air_0164b9927d20bcc3	Thursday	0	9.832403
13	air_0164b9927d20bcc3	Thursday	1	3.000000

14	air_0164b9927d20bcc3	Tuesday	0	9.329118
15	air_0164b9927d20bcc3	Wednesday	0	10.316387
16	air_0164b9927d20bcc3	Wednesday	1	3.000000
17	air_0241aa3964b7f861	Friday	0	8.359475
18	air_0241aa3964b7f861	Friday	1	6.012641
19	air_0241aa3964b7f861	Monday	0	7.677927
20	air_0241aa3964b7f861	Monday	1	7.223709
21	air_0241aa3964b7f861	Saturday	0	10.964849
22	air_0241aa3964b7f861	Sunday	0	8.945340
23	air_0241aa3964b7f861	Thursday	0	5.875021
24	air_0241aa3964b7f861	Thursday	1	1.000000
25	air_0241aa3964b7f861	Tuesday	0	8.059240
26	air_0241aa3964b7f861	Tuesday	1	12.000000
27	air_0241aa3964b7f861	Wednesday	0	9.140297
28	air_0241aa3964b7f861	Wednesday	1	19.920255
29	air_0328696196e46f18	Friday	0	8.529589
...
9073	air_fef9ccb3ba0da2f7	Monday	0	6.731368
9074	air_fef9ccb3ba0da2f7	Monday	1	8.171794
9075	air_fef9ccb3ba0da2f7	Saturday	0	10.767288
9076	air_fef9ccb3ba0da2f7	Sunday	0	9.380023
9077	air_fef9ccb3ba0da2f7	Thursday	0	6.443628
9078	air_fef9ccb3ba0da2f7	Thursday	1	10.580612
9079	air_fef9ccb3ba0da2f7	Tuesday	0	6.000000
9080	air_fef9ccb3ba0da2f7	Wednesday	0	7.730901
9081	air_fef9ccb3ba0da2f7	Wednesday	1	19.000000
9082	air_ffcc2d5087e1b476	Friday	0	35.263139
9083	air_ffcc2d5087e1b476	Friday	1	31.000000
9084	air_ffcc2d5087e1b476	Monday	0	13.704200

9085	air_ffcc2d5087e1b476	Saturday	0	15.895885
9086	air_ffcc2d5087e1b476	Sunday	0	4.444009
9087	air_ffcc2d5087e1b476	Thursday	0	21.665473
9088	air_ffcc2d5087e1b476	Thursday	1	8.701868
9089	air_ffcc2d5087e1b476	Tuesday	0	16.780047
9090	air_ffcc2d5087e1b476	Wednesday	0	24.093559
9091	air_ffcc2d5087e1b476	Wednesday	1	4.000000
9092	air_fff68b929994bfbfbd	Friday	0	6.313825
9093	air_fff68b929994bfbfbd	Friday	1	4.806507
9094	air_fff68b929994bfbfbd	Monday	0	3.645309
9095	air_fff68b929994bfbfbd	Monday	1	2.094304
9096	air_fff68b929994bfbfbd	Saturday	0	7.509217
9097	air_fff68b929994bfbfbd	Sunday	0	3.900721
9098	air_fff68b929994bfbfbd	Thursday	0	4.081858
9099	air_fff68b929994bfbfbd	Thursday	1	7.777684
9100	air_fff68b929994bfbfbd	Tuesday	0	4.390414
9101	air_fff68b929994bfbfbd	Tuesday	1	1.000000
9102	air_fff68b929994bfbfbd	Wednesday	0	4.310547

[9103 rows x 4 columns]

df_ah_wh

	air_store_id	non_buis_day	visitors
0	air_00a91d42b08b08d9	False	29.121363
1	air_00a91d42b08b08d9	True	25.762899
2	air_0164b9927d20bcc3	False	9.340948
3	air_0164b9927d20bcc3	True	8.279828
4	air_0241aa3964b7f861	False	8.211190
5	air_0241aa3964b7f861	True	9.370732
6	air_0328696196e46f18	False	7.838333

7	air_0328696196e46f18	True	9.200621
8	air_034a3d5b40d5b1b1	False	16.098437
9	air_034a3d5b40d5b1b1	True	25.370804
10	air_036d4f1ee7285390	False	19.243831
11	air_036d4f1ee7285390	True	20.036331
12	air_0382c794b73b51ad	False	25.852010
13	air_0382c794b73b51ad	True	32.935929
14	air_03963426c9312048	False	26.376885
15	air_03963426c9312048	True	57.221314
16	air_04341b588bde96cd	False	30.635483
17	air_04341b588bde96cd	True	44.802359
18	air_049f6d5b402a31b2	False	9.605781
19	air_049f6d5b402a31b2	True	15.640040
20	air_04cae7c1bc9b2a0b	False	16.493500
21	air_04cae7c1bc9b2a0b	True	31.561417
22	air_0585011fa179bcce	False	4.368949
23	air_0585011fa179bcce	True	5.327968
24	air_05c325d315cc17f5	False	21.952169
25	air_05c325d315cc17f5	True	27.819889
26	air_0647f17b4dc041c8	False	25.834732
27	air_0647f17b4dc041c8	True	47.579715
28	air_064e203265ee5753	False	19.207658
29	air_064e203265ee5753	True	25.630613
...
1628	air_fbadf737162a5ce3	False	15.103589
1629	air_fbadf737162a5ce3	True	22.571788
1630	air_fc477473134e9ae5	False	12.444066
1631	air_fc477473134e9ae5	True	25.056771
1632	air_fcd4492c83f1c6b9	False	19.421138

1633	air_fcd4492c83f1c6b9	True	33.166177
1634	air_fcfbdcf7b1f82c6e	False	43.066930
1635	air_fcfbdcf7b1f82c6e	True	30.438599
1636	air_fd154088b1de6fa7	False	5.727561
1637	air_fd154088b1de6fa7	True	6.833819
1638	air_fd6aac1043520e83	False	32.811979
1639	air_fd6aac1043520e83	True	34.226467
1640	air_fdc02ec4a3d21ea4	False	8.955431
1641	air_fdc02ec4a3d21ea4	True	19.389501
1642	air_fdcfef8bd859f650	False	3.747338
1643	air_fdcfef8bd859f650	True	4.099478
1644	air_fe22ef5a9cbef123	False	21.581711
1645	air_fe22ef5a9cbef123	True	39.745792
1646	air_fe58c074ec1445ea	False	26.501882
1647	air_fe58c074ec1445ea	True	32.872282
1648	air_fea5dc9594450608	False	13.637181
1649	air_fea5dc9594450608	True	18.091196
1650	air_fee8dcf4d619598e	False	21.491560
1651	air_fee8dcf4d619598e	True	31.135632
1652	air_fef9ccb3ba0da2f7	False	6.941931
1653	air_fef9ccb3ba0da2f7	True	8.908741
1654	air_ffcc2d5087e1b476	False	19.221125
1655	air_ffcc2d5087e1b476	True	22.912030
1656	air_fff68b929994bfbdb	False	4.120007
1657	air_fff68b929994bfbdb	True	5.959775

[1658 rows x 3 columns]

sample_submission2

id air_store_id visit_datetime \

0	air_00a91d42b08b08d9_2017-04-23	air_00a91d42b08b08d9	2017-04-23
1	air_00a91d42b08b08d9_2017-04-24	air_00a91d42b08b08d9	2017-04-24
2	air_00a91d42b08b08d9_2017-04-25	air_00a91d42b08b08d9	2017-04-25
3	air_00a91d42b08b08d9_2017-04-26	air_00a91d42b08b08d9	2017-04-26
4	air_00a91d42b08b08d9_2017-04-27	air_00a91d42b08b08d9	2017-04-27
5	air_00a91d42b08b08d9_2017-04-28	air_00a91d42b08b08d9	2017-04-28
6	air_00a91d42b08b08d9_2017-04-29	air_00a91d42b08b08d9	2017-04-29
7	air_00a91d42b08b08d9_2017-04-30	air_00a91d42b08b08d9	2017-04-30
8	air_00a91d42b08b08d9_2017-05-01	air_00a91d42b08b08d9	2017-05-01
9	air_00a91d42b08b08d9_2017-05-02	air_00a91d42b08b08d9	2017-05-02
10	air_00a91d42b08b08d9_2017-05-03	air_00a91d42b08b08d9	2017-05-03
11	air_00a91d42b08b08d9_2017-05-04	air_00a91d42b08b08d9	2017-05-04
12	air_00a91d42b08b08d9_2017-05-05	air_00a91d42b08b08d9	2017-05-05
13	air_00a91d42b08b08d9_2017-05-06	air_00a91d42b08b08d9	2017-05-06
14	air_00a91d42b08b08d9_2017-05-07	air_00a91d42b08b08d9	2017-05-07
15	air_00a91d42b08b08d9_2017-05-08	air_00a91d42b08b08d9	2017-05-08
16	air_00a91d42b08b08d9_2017-05-09	air_00a91d42b08b08d9	2017-05-09
17	air_00a91d42b08b08d9_2017-05-10	air_00a91d42b08b08d9	2017-05-10
18	air_00a91d42b08b08d9_2017-05-11	air_00a91d42b08b08d9	2017-05-11
19	air_00a91d42b08b08d9_2017-05-12	air_00a91d42b08b08d9	2017-05-12
20	air_00a91d42b08b08d9_2017-05-13	air_00a91d42b08b08d9	2017-05-13
21	air_00a91d42b08b08d9_2017-05-14	air_00a91d42b08b08d9	2017-05-14
22	air_00a91d42b08b08d9_2017-05-15	air_00a91d42b08b08d9	2017-05-15
23	air_00a91d42b08b08d9_2017-05-16	air_00a91d42b08b08d9	2017-05-16
24	air_00a91d42b08b08d9_2017-05-17	air_00a91d42b08b08d9	2017-05-17
25	air_00a91d42b08b08d9_2017-05-18	air_00a91d42b08b08d9	2017-05-18
26	air_00a91d42b08b08d9_2017-05-19	air_00a91d42b08b08d9	2017-05-19
27	air_00a91d42b08b08d9_2017-05-20	air_00a91d42b08b08d9	2017-05-20
28	air_00a91d42b08b08d9_2017-05-21	air_00a91d42b08b08d9	2017-05-21

29 air_00a91d42b08b08d9_2017-05-22 air_00a91d42b08b08d9 2017-05-22

...

31989 air_fff68b929994bfbdbd_2017-05-02 air_fff68b929994bfbdbd 2017-05-02

31990 air_fff68b929994bfbdbd_2017-05-03 air_fff68b929994bfbdbd 2017-05-03

31991 air_fff68b929994bfbdbd_2017-05-04 air_fff68b929994bfbdbd 2017-05-04

31992 air_fff68b929994bfbdbd_2017-05-05 air_fff68b929994bfbdbd 2017-05-05

31993 air_fff68b929994bfbdbd_2017-05-06 air_fff68b929994bfbdbd 2017-05-06

31994 air_fff68b929994bfbdbd_2017-05-07 air_fff68b929994bfbdbd 2017-05-07

31995 air_fff68b929994bfbdbd_2017-05-08 air_fff68b929994bfbdbd 2017-05-08

31996 air_fff68b929994bfbdbd_2017-05-09 air_fff68b929994bfbdbd 2017-05-09

31997 air_fff68b929994bfbdbd_2017-05-10 air_fff68b929994bfbdbd 2017-05-10

31998 air_fff68b929994bfbdbd_2017-05-11 air_fff68b929994bfbdbd 2017-05-11

31999 air_fff68b929994bfbdbd_2017-05-12 air_fff68b929994bfbdbd 2017-05-12

32000 air_fff68b929994bfbdbd_2017-05-13 air_fff68b929994bfbdbd 2017-05-13

32001 air_fff68b929994bfbdbd_2017-05-14 air_fff68b929994bfbdbd 2017-05-14

32002 air_fff68b929994bfbdbd_2017-05-15 air_fff68b929994bfbdbd 2017-05-15

32003 air_fff68b929994bfbdbd_2017-05-16 air_fff68b929994bfbdbd 2017-05-16

32004 air_fff68b929994bfbdbd_2017-05-17 air_fff68b929994bfbdbd 2017-05-17

32005 air_fff68b929994bfbdbd_2017-05-18 air_fff68b929994bfbdbd 2017-05-18

32006 air_fff68b929994bfbdbd_2017-05-19 air_fff68b929994bfbdbd 2017-05-19

32007 air_fff68b929994bfbdbd_2017-05-20 air_fff68b929994bfbdbd 2017-05-20

32008 air_fff68b929994bfbdbd_2017-05-21 air_fff68b929994bfbdbd 2017-05-21

32009 air_fff68b929994bfbdbd_2017-05-22 air_fff68b929994bfbdbd 2017-05-22

32010 air_fff68b929994bfbdbd_2017-05-23 air_fff68b929994bfbdbd 2017-05-23

32011 air_fff68b929994bfbdbd_2017-05-24 air_fff68b929994bfbdbd 2017-05-24

32012 air_fff68b929994bfbdbd_2017-05-25 air_fff68b929994bfbdbd 2017-05-25

32013 air_fff68b929994bfbdbd_2017-05-26 air_fff68b929994bfbdbd 2017-05-26

32014 air_fff68b929994bfbdbd_2017-05-27 air_fff68b929994bfbdbd 2017-05-27

32015 air_fff68b929994bfbdbd_2017-05-28 air_fff68b929994bfbdbd 2017-05-28

32016 air_fff68b929994bfbfd_2017-05-29 air_fff68b929994bfbfd 2017-05-29
 32017 air_fff68b929994bfbfd_2017-05-30 air_fff68b929994bfbfd 2017-05-30
 32018 air_fff68b929994bfbfd_2017-05-31 air_fff68b929994bfbfd 2017-05-31

	visit_year	visit_month	visit_date	day_of_week	holiday_flg	visit_day \
0	2017	4	2017-04-23	Sunday	0	23
1	2017	4	2017-04-24	Monday	0	24
2	2017	4	2017-04-25	Tuesday	0	25
3	2017	4	2017-04-26	Wednesday	0	26
4	2017	4	2017-04-27	Thursday	0	27
5	2017	4	2017-04-28	Friday	0	28
6	2017	4	2017-04-29	Saturday	0	29
7	2017	4	2017-04-30	Sunday	0	30
8	2017	5	2017-05-01	Monday	0	01
9	2017	5	2017-05-02	Tuesday	0	02
10	2017	5	2017-05-03	Wednesday	1	03
11	2017	5	2017-05-04	Thursday	1	04
12	2017	5	2017-05-05	Friday	1	05
13	2017	5	2017-05-06	Saturday	0	06
14	2017	5	2017-05-07	Sunday	0	07
15	2017	5	2017-05-08	Monday	0	08
16	2017	5	2017-05-09	Tuesday	0	09
17	2017	5	2017-05-10	Wednesday	0	10
18	2017	5	2017-05-11	Thursday	0	11
19	2017	5	2017-05-12	Friday	0	12
20	2017	5	2017-05-13	Saturday	0	13
21	2017	5	2017-05-14	Sunday	0	14
22	2017	5	2017-05-15	Monday	0	15
23	2017	5	2017-05-16	Tuesday	0	16

24	2017	5	2017-05-17	Wednesday	0	17
25	2017	5	2017-05-18	Thursday	0	18
26	2017	5	2017-05-19	Friday	0	19
27	2017	5	2017-05-20	Saturday	0	20
28	2017	5	2017-05-21	Sunday	0	21
29	2017	5	2017-05-22	Monday	0	22
...
31989	2017	5	2017-05-02	Tuesday	0	02
31990	2017	5	2017-05-03	Wednesday	1	03
31991	2017	5	2017-05-04	Thursday	1	04
31992	2017	5	2017-05-05	Friday	1	05
31993	2017	5	2017-05-06	Saturday	0	06
31994	2017	5	2017-05-07	Sunday	0	07
31995	2017	5	2017-05-08	Monday	0	08
31996	2017	5	2017-05-09	Tuesday	0	09
31997	2017	5	2017-05-10	Wednesday	0	10
31998	2017	5	2017-05-11	Thursday	0	11
31999	2017	5	2017-05-12	Friday	0	12
32000	2017	5	2017-05-13	Saturday	0	13
32001	2017	5	2017-05-14	Sunday	0	14
32002	2017	5	2017-05-15	Monday	0	15
32003	2017	5	2017-05-16	Tuesday	0	16
32004	2017	5	2017-05-17	Wednesday	0	17
32005	2017	5	2017-05-18	Thursday	0	18
32006	2017	5	2017-05-19	Friday	0	19
32007	2017	5	2017-05-20	Saturday	0	20
32008	2017	5	2017-05-21	Sunday	0	21
32009	2017	5	2017-05-22	Monday	0	22
32010	2017	5	2017-05-23	Tuesday	0	23

32011	2017	5	2017-05-24	Wednesday	0	24
32012	2017	5	2017-05-25	Thursday	0	25
32013	2017	5	2017-05-26	Friday	0	26
32014	2017	5	2017-05-27	Saturday	0	27
32015	2017	5	2017-05-28	Sunday	0	28
32016	2017	5	2017-05-29	Monday	0	29
32017	2017	5	2017-05-30	Tuesday	0	30
32018	2017	5	2017-05-31	Wednesday	0	31

	mnd_flg	weight	non_buis_day	air_genre_name \
0	0	0.682692	True	Italian/French
1	0	0.689848	False	Italian/French
2	1	0.697064	False	Italian/French
3	1	0.704340	False	Italian/French
4	1	0.711677	False	Italian/French
5	1	0.719075	True	Italian/French
6	1	0.726534	True	Italian/French
7	1	0.734055	True	Italian/French
8	0	0.741638	False	Italian/French
9	0	0.749284	False	Italian/French
10	0	0.756993	True	Italian/French
11	0	0.764764	True	Italian/French
12	0	0.772600	True	Italian/French
13	0	0.780500	True	Italian/French
14	0	0.788464	True	Italian/French
15	0	0.796493	False	Italian/French
16	0	0.804587	False	Italian/French
17	0	0.812748	False	Italian/French
18	0	0.820974	False	Italian/French

19	0	0.829266	True	Italian/French
20	0	0.837626	True	Italian/French
21	0	0.846052	True	Italian/French
22	0	0.854547	False	Italian/French
23	0	0.863109	False	Italian/French
24	0	0.871740	False	Italian/French
25	0	0.880440	False	Italian/French
26	0	0.889210	True	Italian/French
27	0	0.898049	True	Italian/French
28	0	0.906958	True	Italian/French
29	0	0.915938	False	Italian/French
...
31989	0	0.749284	False	Bar/Cocktail
31990	0	0.756993	True	Bar/Cocktail
31991	0	0.764764	True	Bar/Cocktail
31992	0	0.772600	True	Bar/Cocktail
31993	0	0.780500	True	Bar/Cocktail
31994	0	0.788464	True	Bar/Cocktail
31995	0	0.796493	False	Bar/Cocktail
31996	0	0.804587	False	Bar/Cocktail
31997	0	0.812748	False	Bar/Cocktail
31998	0	0.820974	False	Bar/Cocktail
31999	0	0.829266	True	Bar/Cocktail
32000	0	0.837626	True	Bar/Cocktail
32001	0	0.846052	True	Bar/Cocktail
32002	0	0.854547	False	Bar/Cocktail
32003	0	0.863109	False	Bar/Cocktail
32004	0	0.871740	False	Bar/Cocktail
32005	0	0.880440	False	Bar/Cocktail

32006	0	0.889210	True	Bar/Cocktail
32007	0	0.898049	True	Bar/Cocktail
32008	0	0.906958	True	Bar/Cocktail
32009	0	0.915938	False	Bar/Cocktail
32010	0	0.924988	False	Bar/Cocktail
32011	0	0.934110	False	Bar/Cocktail
32012	1	0.943304	False	Bar/Cocktail
32013	1	0.952570	True	Bar/Cocktail
32014	1	0.961909	True	Bar/Cocktail
32015	1	0.971321	True	Bar/Cocktail
32016	1	0.980807	False	Bar/Cocktail
32017	1	0.990366	False	Bar/Cocktail
32018	1	1.000000	False	Bar/Cocktail

	air_area_name	latitude	longitude	visitors
0	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	2.000000
1	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	25.708588
2	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	28.855747
3	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	29.444399
4	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	31.962320
5	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	36.406632
6	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	14.398401
7	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	2.000000
8	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	25.708588
9	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	28.855747
10	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	NaN
11	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	NaN
12	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	NaN
13	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	14.398401

14	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	2.000000
15	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	25.708588
16	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	28.855747
17	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	29.444399
18	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	31.962320
19	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	36.406632
20	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	14.398401
21	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	2.000000
22	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	25.708588
23	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	28.855747
24	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	29.444399
25	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	31.962320
26	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	36.406632
27	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	14.398401
28	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	2.000000
29	Tōkyō-to Chiyoda-ku Kudanminami	35.694003	139.753595	25.708588

...

31989	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.390414
31990	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	NaN
31991	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	7.777684
31992	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.806507
31993	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	7.509217
31994	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.900721
31995	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.645309
31996	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.390414
31997	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.310547
31998	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.081858
31999	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	6.313825
32000	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	7.509217

32001	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.900721
32002	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.645309
32003	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.390414
32004	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.310547
32005	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.081858
32006	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	6.313825
32007	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	7.509217
32008	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.900721
32009	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.645309
32010	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.390414
32011	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.310547
32012	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.081858
32013	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	6.313825
32014	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	7.509217
32015	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.900721
32016	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	3.645309
32017	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.390414
32018	Tōkyō-to Nakano-ku Nakano	35.708146	139.666288	4.310547

[32019 rows x 17 columns]

id	0
air_store_id	0
visit_datetime	0
visit_year	0
visit_month	0
visit_date	0
day_of_week	0
holiday_flg	0
visit_day	0

mnd_flg 0
weight 0
non_buis_day 0
air_genre_name 0
air_area_name 0
latitude 0
longitude 0
visitors 668
dtype: int64

air_visit_test

	air_store_id	visitors	day_of_week	holiday_flg	mnd_flg	weight \
0	0	25	Wednesday	0	0	1.005227e-08
1	0	32	Thursday	0	0	1.456087e-08
2	0	29	Friday	0	0	2.055908e-08
3	0	22	Saturday	0	0	2.838881e-08
4	0	6	Monday	0	0	5.115756e-08
5	0	9	Tuesday	0	0	6.703711e-08
6	0	31	Wednesday	0	0	8.663577e-08
7	0	21	Thursday	0	0	1.105716e-07
8	0	18	Friday	0	0	1.395278e-07
9	0	26	Saturday	0	0	1.742555e-07
10	0	21	Monday	0	1	2.643914e-07
11	0	11	Tuesday	0	1	3.216726e-07
12	0	24	Wednesday	0	1	3.884777e-07
13	0	21	Thursday	0	1	4.659480e-07
14	0	26	Friday	0	1	5.553123e-07
15	0	6	Saturday	0	1	6.578904e-07
16	0	18	Wednesday	0	0	1.230104e-06

17	0	12	Thursday	0	0	1.421960e-06
18	0	45	Friday	0	0	1.637042e-06
19	0	15	Saturday	0	0	1.877396e-06
20	0	19	Monday	0	0	2.442701e-06
21	0	15	Tuesday	0	0	2.772345e-06
22	0	32	Wednesday	0	0	3.136654e-06
23	0	3	Thursday	1	0	3.538293e-06
24	0	26	Friday	0	0	3.980059e-06
25	0	8	Saturday	0	0	4.464889e-06
26	0	14	Monday	0	0	5.576176e-06
27	0	15	Tuesday	0	0	6.209213e-06
28	0	17	Wednesday	0	0	6.898481e-06
29	0	22	Thursday	0	0	7.647644e-06
...
252078	0	4	Friday	0	0	4.567290e-01
252079	0	7	Saturday	0	0	4.619191e-01
252080	0	2	Tuesday	0	0	4.777730e-01
252081	0	8	Wednesday	0	0	4.831532e-01
252082	0	8	Thursday	0	0	4.885819e-01
252083	0	7	Friday	0	0	4.940592e-01
252084	0	2	Saturday	0	1	4.995855e-01
252085	0	4	Monday	0	1	5.107866e-01
252086	0	7	Tuesday	0	1	5.164619e-01
252087	0	11	Wednesday	0	1	5.221876e-01
252088	0	7	Thursday	0	1	5.279639e-01
252089	0	8	Friday	0	1	5.337913e-01
252090	0	6	Saturday	0	0	5.396700e-01
252091	0	4	Monday	0	0	5.515828e-01
252092	0	2	Tuesday	0	0	5.576176e-01

252093	0	2	Wednesday	0	0	5.637050e-01
252094	0	8	Thursday	0	0	5.698456e-01
252095	0	8	Friday	0	0	5.760395e-01
252096	0	8	Saturday	0	0	5.822871e-01
252097	0	4	Monday	0	0	5.949451e-01
252098	0	2	Tuesday	0	0	6.013561e-01
252099	0	8	Wednesday	0	0	6.078222e-01
252100	0	6	Thursday	0	0	6.143438e-01
252101	0	2	Friday	0	0	6.209213e-01
252102	0	7	Saturday	0	0	6.275550e-01
252103	0	6	Tuesday	0	0	6.477971e-01
252104	0	6	Wednesday	0	0	6.546593e-01
252105	0	7	Thursday	0	0	6.615795e-01
252106	0	8	Friday	0	0	6.685581e-01
252107	0	5	Saturday	0	0	6.755955e-01

	non_buis_day	air_genre_name	air_area_name
--	--------------	----------------	---------------

0	False	Dining	Tōkyō
1	False	Dining	Tōkyō
2	True	Dining	Tōkyō
3	True	Dining	Tōkyō
4	False	Dining	Tōkyō
5	False	Dining	Tōkyō
6	False	Dining	Tōkyō
7	False	Dining	Tōkyō
8	True	Dining	Tōkyō
9	True	Dining	Tōkyō
10	False	Dining	Tōkyō
11	False	Dining	Tōkyō

12	False	Dining	Tōkyō
13	False	Dining	Tōkyō
14	True	Dining	Tōkyō
15	True	Dining	Tōkyō
16	False	Dining	Tōkyō
17	False	Dining	Tōkyō
18	True	Dining	Tōkyō
19	True	Dining	Tōkyō
20	False	Dining	Tōkyō
21	False	Dining	Tōkyō
22	False	Dining	Tōkyō
23	True	Dining	Tōkyō
24	True	Dining	Tōkyō
25	True	Dining	Tōkyō
26	False	Dining	Tōkyō
27	False	Dining	Tōkyō
28	False	Dining	Tōkyō
29	False	Dining	Tōkyō
...
252078	True	Other	Tōkyō
252079	True	Other	Tōkyō
252080	False	Other	Tōkyō
252081	False	Other	Tōkyō
252082	False	Other	Tōkyō
252083	True	Other	Tōkyō
252084	True	Other	Tōkyō
252085	False	Other	Tōkyō
252086	False	Other	Tōkyō
252087	False	Other	Tōkyō

252088	False	Other	Tōkyō
252089	True	Other	Tōkyō
252090	True	Other	Tōkyō
252091	False	Other	Tōkyō
252092	False	Other	Tōkyō
252093	False	Other	Tōkyō
252094	False	Other	Tōkyō
252095	True	Other	Tōkyō
252096	True	Other	Tōkyō
252097	False	Other	Tōkyō
252098	False	Other	Tōkyō
252099	False	Other	Tōkyō
252100	False	Other	Tōkyō
252101	True	Other	Tōkyō
252102	True	Other	Tōkyō
252103	False	Other	Tōkyō
252104	False	Other	Tōkyō
252105	False	Other	Tōkyō
252106	True	Other	Tōkyō
252107	True	Other	Tōkyō

[252108 rows x 9 columns]

sample_test2 columns

```
Index(['holiday_flg', 'mnd_flg', 'weight', 'non_buis_day',
      'day_of_week_Friday', 'day_of_week_Monday', 'day_of_week_Saturday',
      'day_of_week_Sunday', 'day_of_week_Thursday', 'day_of_week_Tuesday',
      ...
      'air_store_id_air_ff68b929994bfbd', 'air_area_name_Fukuoka',
```

```
'air_area_name_Hiroshima', 'air_area_name_Hokkaidō',  
'air_area_name_Hyōgo', 'air_area_name_Miyagi', 'air_area_name_Niigata',  
'air_area_name_Shizuoka', 'air_area_name_Tōkyō', 'air_area_name_Ōsaka'],  
dtype='object', length=221)
```

air_visit_test columns

```
Index(['visitors', 'holiday_flg', 'mnd_flg', 'weight', 'non_buis_day',  
      'day_of_week_Friday', 'day_of_week_Monday', 'day_of_week_Saturday',  
      'day_of_week_Sunday', 'day_of_week_Thursday',  
      ...  
      'air_store_id_air_fff68b929994bfbf', 'air_area_name_Fukuoka',  
      'air_area_name_Hiroshima', 'air_area_name_Hokkaidō',  
      'air_area_name_Hyōgo', 'air_area_name_Miyagi', 'air_area_name_Niigata',  
      'air_area_name_Shizuoka', 'air_area_name_Tōkyō', 'air_area_name_Ōsaka'],  
dtype='object', length=222)
```

visitors_pre

```
0    30.651367  
1    30.094727  
2    33.541992  
3    13.208008  
4    14.276367  
5    13.305664  
6    13.356445  
7    13.413086  
8    14.493164  
9    14.299805  
10   27.196289  
11    8.607422  
12   18.979492  
13   18.370117
```

14 48.122070

15 21.563477

16 21.610352

17 21.659180

18 21.711914

19 21.768555

20 22.848633

21 52.634766

22 55.954102

23 53.703125

24 53.082031

25 52.526367

26 55.973633

27 54.981445

28 52.731445

29 55.034180

...

638 10.465820

639 9.541992

640 9.596680

641 9.653320

642 10.735352

643 11.057617

644 10.321289

645 13.211914

646 27.257812

647 28.326172

648 27.705078

649 27.354492

```
650 27.406250
651 27.461914
652 28.542969
653 19.188477
654 20.256836
655 19.635742
656 19.284180
657 19.336914
658 19.391602
659 20.473633
660 45.858398
661 20.436523
662 23.329102
663 9.664062
664 37.399414
665 40.291016
666 33.772461
667 8.979492
```

```
Length: 668, dtype: float64
```

```
sample_visitors
```

```
0    2.000000
1    25.708588
2    28.855747
3    29.444399
4    31.962320
5    36.406632
6    14.398401
7     2.000000
8    25.708588
```

9	28.855747
10	14.398401
11	2.000000
12	25.708588
13	28.855747
14	29.444399
15	31.962320
16	36.406632
17	14.398401
18	2.000000
19	25.708588
20	28.855747
21	29.444399
22	31.962320
23	36.406632
24	14.398401
25	2.000000
26	25.708588
27	28.855747
28	29.444399
29	31.962320

...

31989	10.465820
31990	9.541992
31991	9.596680
31992	9.653320
31993	10.735352
31994	11.057617
31995	10.321289

31996	13.211914
31997	27.257812
31998	28.326172
31999	27.705078
32000	27.354492
32001	27.406250
32002	27.461914
32003	28.542969
32004	19.188477
32005	20.256836
32006	19.635742
32007	19.284180
32008	19.336914
32009	19.391602
32010	20.473633
32011	45.858398
32012	20.436523
32013	23.329102
32014	9.664062
32015	37.399414
32016	40.291016
32017	33.772461
32018	8.979492

Length: 32019, dtype: float64

0	2.000000
1	25.708588
2	28.855747
3	29.444399
4	31.962320

5	36.406632
6	14.398401
7	2.000000
8	25.708588
9	28.855747
10	14.398401
11	2.000000
12	25.708588
13	28.855747
14	29.444399
15	31.962320
16	36.406632
17	14.398401
18	2.000000
19	25.708588
20	28.855747
21	29.444399
22	31.962320
23	36.406632
24	14.398401
25	2.000000
26	25.708588
27	28.855747
28	29.444399
29	31.962320

...

31989	10.465820
31990	9.541992
31991	9.596680

31992	9.653320
31993	10.735352
31994	11.057617
31995	10.321289
31996	13.211914
31997	27.257812
31998	28.326172
31999	27.705078
32000	27.354492
32001	27.406250
32002	27.461914
32003	28.542969
32004	19.188477
32005	20.256836
32006	19.635742
32007	19.284180
32008	19.336914
32009	19.391602
32010	20.473633
32011	45.858398
32012	20.436523
32013	23.329102
32014	9.664062
32015	37.399414
32016	40.291016
32017	33.772461
32018	8.979492

Length: 32019, dtype: float64

0 air_00a91d42b08b08d9_2017-04-23

- 1 air_00a91d42b08b08d9_2017-04-24
- 2 air_00a91d42b08b08d9_2017-04-25
- 3 air_00a91d42b08b08d9_2017-04-26
- 4 air_00a91d42b08b08d9_2017-04-27
- 5 air_00a91d42b08b08d9_2017-04-28
- 6 air_00a91d42b08b08d9_2017-04-29
- 7 air_00a91d42b08b08d9_2017-04-30
- 8 air_00a91d42b08b08d9_2017-05-01
- 9 air_00a91d42b08b08d9_2017-05-02
- 10 air_00a91d42b08b08d9_2017-05-06
- 11 air_00a91d42b08b08d9_2017-05-07
- 12 air_00a91d42b08b08d9_2017-05-08
- 13 air_00a91d42b08b08d9_2017-05-09
- 14 air_00a91d42b08b08d9_2017-05-10
- 15 air_00a91d42b08b08d9_2017-05-11
- 16 air_00a91d42b08b08d9_2017-05-12
- 17 air_00a91d42b08b08d9_2017-05-13
- 18 air_00a91d42b08b08d9_2017-05-14
- 19 air_00a91d42b08b08d9_2017-05-15
- 20 air_00a91d42b08b08d9_2017-05-16
- 21 air_00a91d42b08b08d9_2017-05-17
- 22 air_00a91d42b08b08d9_2017-05-18
- 23 air_00a91d42b08b08d9_2017-05-19
- 24 air_00a91d42b08b08d9_2017-05-20
- 25 air_00a91d42b08b08d9_2017-05-21
- 26 air_00a91d42b08b08d9_2017-05-22
- 27 air_00a91d42b08b08d9_2017-05-23
- 28 air_00a91d42b08b08d9_2017-05-24
- 29 air_00a91d42b08b08d9_2017-05-25

...

31989 air_ef47430bcd6f6a89_2017-04-26
31990 air_ef47430bcd6f6a89_2017-05-10
31991 air_ef47430bcd6f6a89_2017-05-17
31992 air_ef47430bcd6f6a89_2017-05-24
31993 air_ef47430bcd6f6a89_2017-05-31
31994 air_f0c7272956e62f12_2017-05-03
31995 air_f1094dbf2aef85d9_2017-05-03
31996 air_f1094dbf2aef85d9_2017-05-05
31997 air_f1f9027d4fa8f653_2017-04-23
31998 air_f1f9027d4fa8f653_2017-04-30
31999 air_f1f9027d4fa8f653_2017-05-03
32000 air_f1f9027d4fa8f653_2017-05-07
32001 air_f1f9027d4fa8f653_2017-05-14
32002 air_f1f9027d4fa8f653_2017-05-21
32003 air_f1f9027d4fa8f653_2017-05-28
32004 air_f927b2da69a82341_2017-04-23
32005 air_f927b2da69a82341_2017-04-30
32006 air_f927b2da69a82341_2017-05-03
32007 air_f927b2da69a82341_2017-05-07
32008 air_f927b2da69a82341_2017-05-14
32009 air_f927b2da69a82341_2017-05-21
32010 air_f927b2da69a82341_2017-05-28
32011 air_f96765e800907c77_2017-05-03
32012 air_fb44f566d4f64a4e_2017-05-03
32013 air_fb44f566d4f64a4e_2017-05-05
32014 air_fd154088b1de6fa7_2017-05-03
32015 air_fd6aac1043520e83_2017-05-03
32016 air_fd6aac1043520e83_2017-05-05

32017 air_fe58c074ec1445ea_2017-05-03

32018 air_fff68b929994bfbdb_2017-05-03

Name: id, Length: 32019, dtype: object

id visitors

0	air_00a91d42b08b08d9_2017-04-23	2.000000
1	air_00a91d42b08b08d9_2017-04-24	25.708588
2	air_00a91d42b08b08d9_2017-04-25	28.855747
3	air_00a91d42b08b08d9_2017-04-26	29.444399
4	air_00a91d42b08b08d9_2017-04-27	31.962320
5	air_00a91d42b08b08d9_2017-04-28	36.406632
6	air_00a91d42b08b08d9_2017-04-29	14.398401
7	air_00a91d42b08b08d9_2017-04-30	2.000000
8	air_00a91d42b08b08d9_2017-05-01	25.708588
9	air_00a91d42b08b08d9_2017-05-02	28.855747
10	air_00a91d42b08b08d9_2017-05-06	14.398401
11	air_00a91d42b08b08d9_2017-05-07	2.000000
12	air_00a91d42b08b08d9_2017-05-08	25.708588
13	air_00a91d42b08b08d9_2017-05-09	28.855747
14	air_00a91d42b08b08d9_2017-05-10	29.444399
15	air_00a91d42b08b08d9_2017-05-11	31.962320
16	air_00a91d42b08b08d9_2017-05-12	36.406632
17	air_00a91d42b08b08d9_2017-05-13	14.398401
18	air_00a91d42b08b08d9_2017-05-14	2.000000
19	air_00a91d42b08b08d9_2017-05-15	25.708588
20	air_00a91d42b08b08d9_2017-05-16	28.855747
21	air_00a91d42b08b08d9_2017-05-17	29.444399
22	air_00a91d42b08b08d9_2017-05-18	31.962320
23	air_00a91d42b08b08d9_2017-05-19	36.406632
24	air_00a91d42b08b08d9_2017-05-20	14.398401

25 air_00a91d42b08b08d9_2017-05-21 2.000000
26 air_00a91d42b08b08d9_2017-05-22 25.708588
27 air_00a91d42b08b08d9_2017-05-23 28.855747
28 air_00a91d42b08b08d9_2017-05-24 29.444399
29 air_00a91d42b08b08d9_2017-05-25 31.962320
... ..
31989 air_ef47430bcd6f6a89_2017-04-26 10.465820
31990 air_ef47430bcd6f6a89_2017-05-10 9.541992
31991 air_ef47430bcd6f6a89_2017-05-17 9.596680
31992 air_ef47430bcd6f6a89_2017-05-24 9.653320
31993 air_ef47430bcd6f6a89_2017-05-31 10.735352
31994 air_f0c7272956e62f12_2017-05-03 11.057617
31995 air_f1094dbf2aef85d9_2017-05-03 10.321289
31996 air_f1094dbf2aef85d9_2017-05-05 13.211914
31997 air_f1f9027d4fa8f653_2017-04-23 27.257812
31998 air_f1f9027d4fa8f653_2017-04-30 28.326172
31999 air_f1f9027d4fa8f653_2017-05-03 27.705078
32000 air_f1f9027d4fa8f653_2017-05-07 27.354492
32001 air_f1f9027d4fa8f653_2017-05-14 27.406250
32002 air_f1f9027d4fa8f653_2017-05-21 27.461914
32003 air_f1f9027d4fa8f653_2017-05-28 28.542969
32004 air_f927b2da69a82341_2017-04-23 19.188477
32005 air_f927b2da69a82341_2017-04-30 20.256836
32006 air_f927b2da69a82341_2017-05-03 19.635742
32007 air_f927b2da69a82341_2017-05-07 19.284180
32008 air_f927b2da69a82341_2017-05-14 19.336914
32009 air_f927b2da69a82341_2017-05-21 19.391602
32010 air_f927b2da69a82341_2017-05-28 20.473633
32011 air_f96765e800907c77_2017-05-03 45.858398

32012 air_fb44f566d4f64a4e_2017-05-03 20.436523
32013 air_fb44f566d4f64a4e_2017-05-05 23.329102
32014 air_fd154088b1de6fa7_2017-05-03 9.664062
32015 air_fd6aac1043520e83_2017-05-03 37.399414
32016 air_fd6aac1043520e83_2017-05-05 40.291016
32017 air_fe58c074ec1445ea_2017-05-03 33.772461
32018 air_fff68b929994bfbfd_2017-05-03 8.979492

[32019 rows x 2 columns]

Done