
Subject: Organizing arrays

Posted by [gpeterso](#) on Sun, 27 Jul 2014 03:06:59 GMT

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Hey folks! I am very new to IDL. Here is my problem: I have three different arrays shown below

Array one:

index #	Latitude	longitude	Orbit #	Ls	Local time
0	33.4829	144.685	29074.0	185.281	0.715993
2	36.3315	91.0626	29076.0	185.371	0.719348
3	37.0565	64.0919	29077.0	185.415	0.720421
4	33.3151	35.5232	29078.0	185.459	0.716017
6	35.0037	8.50496	29079.0	185.504	0.717235
7	34.4065	-18.9372	29080.0	185.549	0.716722
8	34.8903	-46.2066	29081.0	185.594	0.716919
9	36.4789	-100.000	29083.0	185.683	0.719498
10	35.0933	-128.030	29084.0	185.727	0.717122
11	32.9497	-155.667	29085.0	185.772	0.715697
13	35.5729	150.636	29087.0	185.862	0.718892
14	32.0291	122.251	29088.0	185.906	0.715020
16	35.5763	68.7436	29090.0	185.996	0.718833
17	37.6885	42.0765	29091.0	186.041	0.721119

Array 2

index #	Latitude	longitude	Orbit #	Ls	Local time
0	32.2091	93.6677	29074.0	185.281	0.575063
2	37.9429	63.1391	29075.0	185.327	0.567475
3	35.0501	37.6105	29076.0	185.371	0.571654
4	35.7919	9.82673	29077.0	185.416	0.570469
5	32.1131	-15.2921	29078.0	185.460	0.575648
7	33.7751	-43.5211	29079.0	185.505	0.573503
8	33.1527	-70.5551	29080.0	185.549	0.574123
10	33.5869	-98.1293	29081.0	185.594	0.573473
12	38.5033	-128.339	29082.0	185.639	0.566563
13	35.2229	-153.572	29083.0	185.683	0.571470
14	33.8217	179.900	29084.0	185.728	0.573268
15	38.1313	150.102	29085.0	185.773	0.567385
16	34.3573	97.7053	29087.0	185.862	0.572646
17	37.1803	68.6905	29088.0	185.907	0.568572
18	38.6269	40.5004	29089.0	185.952	0.566419

Array 3

index #	Latitude	longitude	Orbit #	Ls	Local time
0	37.7635	-35.9067	29074.0	185.294	0.236150
2	32.0721	-66.7581	29075.0	185.339	0.227666

3	35.0153	-92.4317	29076.0	185.383	0.231442
4	33.9841	-120.445	29077.0	185.428	0.229713
5	37.9441	-145.032	29078.0	185.472	0.236275
6	36.2873	-173.342	29079.0	185.517	0.233905
7	36.8653	159.725	29080.0	185.562	0.234806
8	36.3945	132.199	29081.0	185.606	0.234291
9	37.7809	105.764	29082.0	185.651	0.236322
10	34.8291	76.3341	29083.0	185.696	0.231116
11	36.2353	50.1601	29084.0	185.740	0.233895
12	38.3637	24.1150	29085.0	185.785	0.236893
13	35.8291	-4.69733	29086.0	185.830	0.233335
14	35.6629	-32.0563	29087.0	185.874	0.233214
16	32.8421	-61.2955	29088.0	185.920	0.228516
17	37.6395	-85.4017	29089.0	185.964	0.236161

What I need to is to organize the data so that the the orbits are in a ascending order in groups of three. if there is not a match then I need it to skip the row for all three. Here is an example:

Array 1 orbit #	Array 2 orbit #	Array 3 orbit #	Array 1 index #	Array 2 index #	3idx#
29074.0	29075.0	29076.0	0	2	3

I was thinking of doing something like this.

```
for j = 0, n_elements-1 do begin
```

```
orb_num=array_1[j]
```

```
if array_2(3,*,*,*,*) eq orb_num+1 and array_3(3,*,*,*,*)+2 then begin
```

```
print, array_1(3,*,*,*,*)[j], array_2(3,*,*,*,*)[j], array_3(3,*,*,*,*), array_1(0,*,*,*,*),
array_2(0,*,*,*,*), array_3(0,*,*,*,*)
```

Does anyone know if this idea would work? any suggestions?