
Subject: Re: Why I am getting different total observations when using iweight for tabulating a variable

Posted by [sujata](#) on Thu, 30 Mar 2023 11:02:05 GMT

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Dear Tom,

In addition to the above queries, I am facing another issue while applying the normalized weight to

where j varies from 0 to $i-1$. for the same, I applied the following commands, but the mean of the fractional rank is not exactly 0.5. It is 0.4857. sv271 is the wealth index factor score for state-level studies. My study is on the Indian state of Punjab. I am following the world bank document "Analyzing health equity using household survey data" for your reference.

```
sort sv271s
egen raw_rank=rank(sv271s), unique
sort raw_rank
```

```
qui sum wgt_shweight_PR
gen wi = wgt_shweight_PR/r(sum)
gen cusum = sum(wi)
gen wj= cusum[_n-1]
replace wj=0 if wj==.
gen rank_CE=wj+0.5*wi
```

here wgt_shweight_PR is generated so that the mean is equal to 1. below are the commands used to normalize the weights in PR file:

```
gen unwtd=1000000
total unwtd shweight
matrix B=e(b)
matrix list B
scalar sfactor=B[1,1]/B[1,2]
scalar list sfactor
gen shweight_PR=round(sfactor*shweight)
gen wgt_shweight_PR= shweight_PR/1000000
```

Please let me know where I am going wrong.
