

At the start:

Samplesize=20

Obsleft=136

Obsnum=1

If ranuni(0) < 20/136

→

Select obsnum #1

Samplesize = 19

Obsleft=135

Obsnum = 2

→

If ranuni(0) < 19/135

Select obsnum #2

Etc.

Stop when samplesize = 0 (no more observations needed for sample)

If at any point in the process, samplesize  $\geq$  obsleft, then all remaining observations will certainly be selected.

ELSE

Do not select obsnum #1

Samplesize=20

Obsleft=136

Obsnum=2

→

If ranuni(0) < 20/136

Select obsnum #2