

```
/* SAS program to pick a simple random sample */
/* of 'nsamp' units out of 'ntot' units      */

options nocenter ls=72;
%let ntot = 100;
%let nsamp = 20;
data;
  nbig=&ntot;
  nlittle=&nsamp;
  unit=1;
  do while(nlittle>0);
    u=ranuni(0);
    if u*nbig>nlittle then do;
      nbig=nbig-1;
    end;
    else do;
      nbig=nbig-1;
      nlittle=nlittle-1;
      output;
    end;
    unit=unit+1;
  end;
proc print;
var unit;
run;
```

Obs	unit
1	2
2	7
3	11
4	14
5	16
6	27
7	29
8	30
9	32
10	42
11	49
12	54
13	58
14	66
15	69
16	71
17	72
18	74
19	78
20	88