

Simple random sample

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code

```
x=[zeros(1,7) ones(1,93)];
n=100000;
ind=[];
tic
for i=1:n
    ming=randsample(x,50);
    if min(ming)==0
        ind(i)=1;
    end
end
end
```

result

```
fprintf("simulated prob = %7.5f. \n", mean(ind))
fprintf("true prob = %7.5f. \n",1-nchoosek(93,50)/nchoosek(100,50))
toc
```

```
simulated prob = 0.99382.
Warning: Result may not be exact. Coefficient is greater than 9.007199e+15 and
is only accurate to 15 digits
Warning: Result may not be exact. Coefficient is greater than 9.007199e+15 and
is only accurate to 15 digits
true prob = 0.99376.
Elapsed time is 0.876711 seconds.
```

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