

# *Generating random numbers*

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I will show you on generating a array of random numbers and finding their mean, variance and standard deviation.



HERE IS THE DETAILED REVIEW OF GENERATING RANDOM  
NUMBERS.

```
import random
(1)a=[]
for i in range(20):
    a=a+[random.uniform(0.0,100.0)]
s=0.0
for i in range(20):
    s=s+a[i]
avg=s/20

(2)s1=0.0
for i in range(len(a)):
    s1=s1+a[i]*a[i]

avgS=s1/len(a)

var=avgS-avg*avg

(3)s2=0.0
for i in range(len(a)):
```

we can use this code to find random numbers. For example I want find 20 numbers, so I type 20 in range. we also can limit the range between 2 numbers. The number (1) is for searching mean. In this code, we find the mean from twenty random numbers. The (2) and (3) are for searching the variance and standard deviation.

```
s2=s2+(a[i]-avg)*(a[i]-avg)

var2=s2/len(a)

stddev=var**(0.5)

print stddev
```

the numbers are random numbers.

This is the output of my program.