Generating an array of random numbers and finding mean, variance, and standard deviation

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October 1, 2015

This document is about how to array 20 random numbers, and then finds the mean of them, then variance, and gives the final answer as the standard deviation. The functions are made from the formula of variance and standard deviation.

Figure 1: This figure shows the old computer.

PRIME NUMBER CLASSIFIER

```
import random
a=[]
for i in range(20):
a=a+[random.uniform(0.0,100.0)]
s1=0.0
for i in range(len(a)):
s1=s1+a[i]
avgS=s1/len(a)
s2=0.0
for i in range(len(a)):
s2=s2+a[i]*a[i]
avgS1=s2/len(a)

Var=avgS1-avgS*avgS
s3=0.0
for i in range(len(a)):
s3=s3+(a[i]-avgS)*(a[i]-avgS)
Var2=s3/len(a)
stddev=Var**(0.5)
print stddev
```

This code is pretty precise.

```
Standard deviation from this code is 28.7958968528.
```

This indicates the output(result) of my program.

REFERENCES