The Random Number

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This show out the how can we find random number in between 1 to 100 and calculate in average in python. It helps finding random numbers and calculate them in a faster way.

Figure 1: This is a margin figure. But actually it is not relate to our work

MAIN CODE

These are the new main code we need in the python to find the random numbers.And also we need to use "range" what we learn last time.

```
import random
a=[]
for i in range(20):
a=a+[random.unform(0,100)]
```

These code called "import random" "random.uniform(min,max)"

PYTHON CODE

```
import random
a=[]
for i in range(20):
    a=a+[random.uniform(0,100)]

print a

s=0
for i in range(len(a)):
    s=s+a[i]
avg=s/len(a)
print avg

s1=0
for i in range(len(a)):
    s1=s1+a[i]**2

avgS=s1/len(a)
```

Here shows the example for me to find the random numbers and the calculations.

```
var=avgS-avg*avg
#print var

s2=0
for i in range(len(a)):
    s2=s2+(a[i]-avg)**2

var2=s2/len(a)
#print var2

stddev=var**(0.5)
#print stddev
```

```
 [65, 22, 1, 29, 13, 40, 36, 11, 98, 56, 67, 41,
 0, 27, 75, 35, 3, 20, 59, 81]
38
```

This is the layout of the program.The first array are the random numbers and the number in the other line is the average of the array.