```
//pseudo random program (all in one)//
#include<iostream>
#include<cmath>
using namespace std;
class random
{
long i,x,n,a,c,M,y;
float g,t;
int seed;

public:
void cal();
};

void random::cal()
{
cout<<"enter the no of random no to be generated"<<endl;
cin>>n;
cout<<"enter seed"<<endl;
cin>>seed;
cout<<"random no are"<<endl;
M=256;
a=65;
c=27;
x=1;

for(i=0;i<=n;i++)
{
y=((a*seed)+c)%M;
g=y/10;
t=g/100;
cout<<y<<"            "<<g<<"               "<<t<<endl;
seed=g;
}
}
int main()
{
random r;
r.cal();
return 0;
}

//output
//enter the no of random no to be generated
//15
//enter seed
//5
//random no are
//96              9             0.09
//100           10             0.1
//165           16             0.16
//43             4             0.04
```

| | | |
|---|---|---|
| //31 | 3 | 0.03 |
| //222 | 22 | 0.22 |
| //177 | 17 | 0.17 |
| //108 | 10 | 0.1 |
| //165 | 16 | 0.16 |
| //43 | 4 | 0.04 |
| //31 | 3 | 0.03 |
| //222 | 22 | 0.22 |
| //177 | 17 | 0.17 |
| //108 | 10 | 0.1 |
| //165 | 16 | 0.16 |
| //43 | 4 | 0.04 |