

```
#include<iostream>
#include<cstdlib>
using namespace std;
int main()
{
    int x=2;
    double power1=1, power2=1;
    int k=0;
    for(int j=1;j<=100;j++)
    {
        power1=power1*x;
        k++;
    }
    k=k-1;

    cout<<power1<<endl;
    cout<<k<<endl;

    for(int i=1;i<=10;i++)
    {
        power2=power2*power1;
        k++;
    }

    cout<<power2<<endl;
    cout<<k--<<endl;

    system("pause");
    return 0;
}
```