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//Carla Preda
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// Intermediate 5
#include <iostream>
#include <fstream>
#include <cmath>
using namespace std;
ifstream fin("transf.in");
ofstream fout("transf.out");
int v[20];
int main()
{
    long long n,p,a,ct,i,m,s,prod,b,x,y,ct2,j,co;
    for(i=1; i<=5; i++)
    {
        fin>>n>>p;
        co=n;m=n;x=n;
        ct=0;ct2=0;s=0;y=0;
        prod=1;
        while(ct<p)
        {
            a=m%10;
            ct++;
            m=m/10;
        }
        while(x>m)
        {
            b=x%10;
            s=abs(a-b);
            y=y*10+s;
            x=x/10;
        }
    }
}
```

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while(x!=0)
{
    b=x%10;
    s=a+b;
    if(s>=10)
    {
        s=s%10;
    }
    y=y*10+s;
    x=x/10;
}
```

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while(y!=0)
{
    ct2++;
    v[ct2]=y%10;
    y=y/10;
}
if(p==1)
{
    ct2++;v[ct2]=a;
}
else
v[ct2-ct+1]=a;
for(j=1; j<=ct2; j++)
    fout<<v[j];
    fout<<"\n";
}
return 0;
}
```