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// Intermediate 5
#include <fstream>
#include <cmath>
using namespace std;
ifstream fin("Transformation.in");
ofstream fout("Transformation.out");
int main()
{
    unsigned long long int n;
    int p,i,v[101];
    for(int k=1;k<=5;k++)
    {
        fin>>n;
        fin>>p;
        i=0;
        while(n!=0)
        {
            i++;
            v[i]=n%10;
            n/=10;
        }
        int lg=i;
        for(i=lg;i>p;i--)
            v[i]=(v[i]+v[p])%10;
        for(i=p-1;i>=1;i--)
            v[i]=abs(v[i]-v[p]);
        for(i=lg;i>=1;i--)
            fout<<v[i];
        fout<<"\n";
    }
    return 0;
}
```