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/**
    NAME: COMANICIU Maria
    GRADE: 11
    DIVISION: SR3
    SCHOOL: NCSC "Grigore Moisil"
**/

#include <cstdio>
#include <cstring>
#include <cmath>
#include <climits>
#define MAXIML LONG_MAX
using namespace std;

int p;
char num[30];
long long numar;

int primeFactors(long long x)
{
    int nr=0;
    if(x%2 == 0)
    {
        nr++;
        while(x % 2 == 0)
            x/=2;
    }

    for(long long i=3; i*i <= x; i+=2)
    {
        if(x%i == 0)
        {
            nr++;
            while(x%i == 0)
                x/=i;
        }
    }
    if(x != 1)
        nr++;
    return nr;
}

int main()
{
    freopen("number.in", "r", stdin);
    //freopen("number.out", "w", stdout);
    //printf("%lld\n", MAXIML);
    for(int acsl = 1; acsl <= 5; acsl++)
    {
        scanf("%s %d", num, &p);
        int len = strlen(num);
        int poz = len - p ;
        int cif = num[poz] - '0';
        numar=0;
        for(int i = 0; i < len; i++)
            numar=numar*10+1LL*(num[i]-'0');
        for(int i = 0; i < poz; i++)
        {
            printf("%d", num[i] - '0' + cif);
        }
        printf("%d", primeFactors(numar));
    }
}

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    for(int i = poz+1; i < len; i++)
    {
        int val=abs(num[i] - '0' - cif);
        printf("%d", val);
    }
    printf("\n");
}

return 0;
}
```