

```
///Criveanu Bogdan
#include <iostream>
#include <fstream>
#include <string>
#include <cmath>
using namespace std;
ifstream fcin("input.txt");
ofstream fcout("output.txt");
```

```
char to_dig_rg(char s,int a)
{
    short var;
    var=s-'0';
    var=abs(var-a);
    return (var+'0');
}
```

```
char to_dig_lt(char s, int a)
{
    short var;
    var=s-'0';
    var=var+a;
    var=var%10;
    return (var+'0');
}
```

```
int p;
```

```
int main()
{
    string s;
    for(int i=1;i<=5;i++)
    {
        s.clear();
        fcin>>s>>p;
```

```
int n=s.size()-p;

int a,beg=0;
if(s[0]=='-')
    beg++;
a=s[n]-'0';
for(int j=beg;j<s.size();j++)
{
    if(j<n)
        s[j]=to_dig_lt(s[j], a);
    else if(j>n)
        s[j]=to_dig_rg(s[j], a);
}
fcout<<s<<'\n';
}
}
```